

Discrete Semiconductors

Diodes



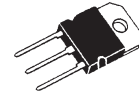
B 1

TVS Diodes



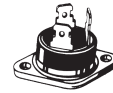
B 6

Transistors



B 7

Thyristors, Triacs, Diacs



B 13

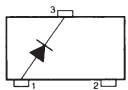
Switching Diodes

Part No.	Ord.No.	Manufact.	I _{max} [A]	U _{max} [V]	t _{rr} [ns]	Housing
S 1 N 4148	14088		0,1	75	4	DO-35
S 1 N 4448	14098		0,1	75	4	DO-35
S BAS 16	19977		0,215	75	6	SOT-23 (A6)
S BAV 21 AMMO	13593	DIOTEC	0,25	200	50	DO-35
S BAV 70	19978		0,25	70	6	SOT-23 (A4)
S BAV 99 INF	19979		0,25	70	6	SOT-23 (A7)
S BAW 56	20420		0,25	70	6	SOT-23 (A1)
S LL4148	20172	DIOTEC	0,2A	75V	4	MINIMELF
S LL 4448	28100	DIOTEC	0,2	75	4	MINIMELF
S TS 4148-0805	47849		0,3	100	4	0805
S TS 4148-1206	47850		0,3	100	4	1206

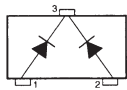
t_{rr} = reverse recovery time

Housing dimensions can be found in the back of the catalogue. The housing SOT - 23, the expression in parentheses (A6 ...) stands for marking on housing.

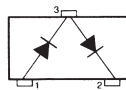
BAS 16,19,21



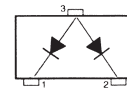
BAV 70, BAS 45



BAV 99



BAW 56



Rectifier Diodes

Part No.	Ord.No.	Manufacturer	I _{max} [A]	U _{max} [V]	Housing
S 1 N 4002	14090		1	100	DO41
S 1 N 4007	14095		1	1000	DO41
S 1 N 5402	14104	DIOTEC	3	200	DO201
S 1 N 5408	14109	DIOTEC	3	1000	DO201
S GL 1 M	48832	DIOTEC	1	1000	MINIMELF
S P 1000 M	55060	DIOTEC	10	1000	P600
S P 600 D	14052	DIOTEC	6	200	P600
S P 600 K	14055	DIOTEC	6	800	P600
S P 600 M	32790	DIOTEC	6	1000	P600
S S 1 B	45857	DIOTEC	1	100	DO214AC
S S 1 M	45858	DIOTEC	1	1000	DO214AC
S S 2 B	45860	DIOTEC	2	100	DO214 AA
S S 2 M	45859	DIOTEC	2	1000	DO214 AA
S S 3 M	45872	DIOTEC	3	1000	DO214 AB
S SM 4002	23944	DIOTEC	1	100	MELF
S SM 4007	23949	DIOTEC	1	1000	MELF
S SM 5408	55156	DIOTEC	3	1000	DO213 AB
S BY 500-800V	14019	DIOTEC	5	800	Ø 5.4 x 7.5 [mm]
O 40 HF 20 DO5	9119		40	200	DO5
O 40 HFR 20	9120		40	200	DO5

Fast Rectifier Diodes

Part No.	Ord.No.	Manufact.	I _{max} [A]	U _{max} [V]	t _{rr} [ns]	Housing
S BA 157	13585		1	400	300	DO-41
S BA 159	13585	DIOTEC	1	400	300	DO-41
S BY 228	14005		3	1500	20000	SOD-64
S BY 299	14014		2	800	500	DO-201
S BY 329-1200	24184		8	1200	135	TO220AC
S BY 399	19362	DIOTEC	3	800	500	DO-201
S BYV 27-200	14021		2	200	25	SOD-57
S BYV 28-200	14023		3,5	200	30	SOD-64
S BYV 32 E-200	24192		2x10	200	25	TO-220
S BYV 79 E-200	24201		14	200	30	DO-220AB
S BYW 29-200	14030		8	200	35	DO-220AB
S BYW 80-200	27176		8	200	35	DO-220AB
S FUF 5407	6967		3	200	75	DO201AD
S STTH 6002 CW	63119		2x30	200	22	TO247
S UF 4007	4058	DIOTEC	1	1000	75	DO-41
S UF 5408	42613	DIOTEC	3	1000	75	DO-201

Housing dimensions can be found in the back of the catalogue.

DO201



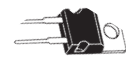
DO214AA



DO214AC



DO220AB



DO34



DO35



DO41



DO5



MELF
D2,5xL5 mm



MINIMELF



P600
D8xL7,5mm



SOD-64



SOT23



TO220



TO220AC

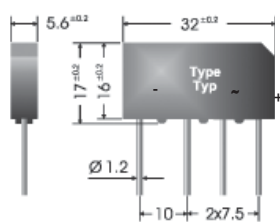


Bridge Rectifiers

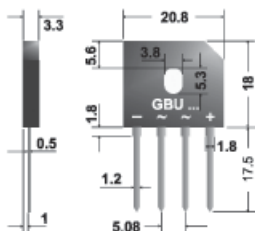
Part No.	Ord.No.	Manufact.	I_{max} [A]	V_{rms} [V]	V_{rrm} [V]	Housing
S B 80 C 1000 SMD	22662	DIOTEC	1	80	160	SMD
S B 80 C 800 SMD MINI	40604	DIOTEC	0,8	110	160	SMD mini
S B 380 C 1000 SMD	40932	DIOTEC	1	380	800	SMD
S S 250 = HD06	40606	DIOTEC	0,8	250	500	SMD
S S 380 = HD08	40607	DIOTEC	0,8	380	800	SMD
S B 80 C 1000 DIL	19431	DIOTEC	1	80	160	DIP-4
S B 80 C 1500/1000 FL	13215	DIOTEC	1,5	80	160	FB 1F
S B 80 C 1500 RD	13226	DIOTEC	1,5	80	160	RB 1F
S B 80 C 3700/2200	13204	DIOTEC	3,7	80	160	FB 4F
S B 80 C 4000 SIL (GBU4B)	18946	DIOTEC	4	70	100	FB 5D
S B 80 C 5000/3300	13208		5	80	160	FB 4F
S B 80 C 6000 SIL (GBU6B)	18953	DIOTEC	6	70	100	FB 5D
S B 80 C 7000/4000	13212	DIOTEC	7	80	160	FB 4F
S B 80 C 8000 SIL (GBU8B)	18960	DIOTEC	8	70	100	FB 5D
S B 250 C 1000 DIL	19433	DIOTEC	1	250	600	DIP-4
S B 250 C 1500/1000 FL	13216	DIOTEC	1,5	250	600	FB 1F
S B 250C 1500 A	74044	DIOTEC	1,5	250	600	FB1F
S B 250 C 1500 RD	13227	DIOTEC	1,5	250	600	RB 1F
S B 250 C 3700/2200	13205		3,7	250	600	FB 4F
S B 250 C 5000/3300	13209	DIOTEC	5	250	600	FB 4F
S B 250 C 8000 SIL (GBU8G)	18962	DIOTEC	8	280	400	FB 5D
S B 380 C 1000 DIL	23198	DIOTEC	1	380	800	DIP-4
S B 380 C 1500 RD	13228	DIOTEC	1,5	380	800	RB 1F
S KBPC 1006 W	13222	DIOTEC	10	420	600	RB 3W
S B 380 C 4000 SIL (GBU4J)	18949	DIOTEC	4	420	600	FB 5D
S B 380 C 6000 SIL (GBU6J)	18956	DIOTEC	6	420	600	FB 5D
S B 380 C 8000 SIL (GBU8J)	18963	DIOTEC	8	420	600	FB 5D
S KBPC 1506 F	29174	DIOTEC	15	420	600	RB 3F
S KBPC 2506 W	13233	DIOTEC	25	420	600	RB 3W
S KBPC 2506 F	13243	DIOTEC	25	420	600	RB 3F
S KBPC 2510 F	13245	DIOTEC	25	700	1000	RB 3F
S KBPC 3506 F (B350C35000)	13249	DIOTEC	35	420	600	RB 3F
S KBPC 3506 W	13252	DIOTEC	35	420	600	RB 3W
S KBPC 3510 F	13251	DIOTEC	35	700	1000	RB 3F
S KBPC 5006 F	29180	DIOTEC	50	250	600	RB 3F

V_{rms} = recom. alternating input voltage, V_{rrm} = repetitive peak reverse voltage.
The last letter in component's type marking: W - wire, F - faston.

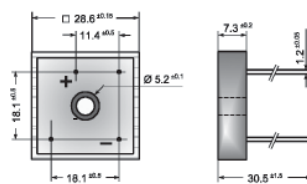
FB4F



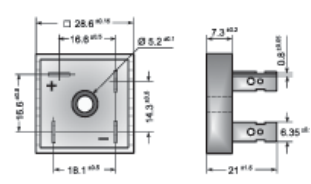
FB5D



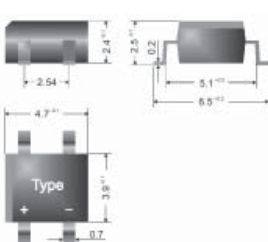
RB3W



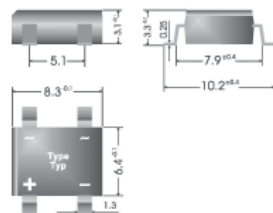
RB3F



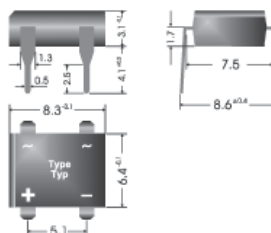
SMD-mini



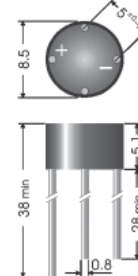
SMD



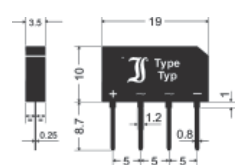
DIP-4



RB1F



FB1F



We also supply SMD bridge rectifiers in SuperMicroDIL housing.

More information on request.

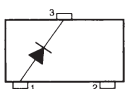
info@soselectronic.com

Schottky Diodes

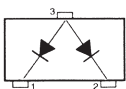
Part No.	Ord.No.	Manuf.	I_{max} [A]	U_{max} [V]	UF_{max} @IF[V/A]	Housing
S BAR 43	32774		0,1	30	0,33 / 0,002	SOT-23 (D95)
S BAR 43 A	32775		0,1	30	0,33 / 0,002	SOT-23 (DB1)
S BAR 43 C	32776		0,1	30	0,33 / 0,002	SOT-23 (DB2)
S BAR 43 S	32777		0,1	30	0,33 / 0,002	SOT-23 (DA5)
S BAS 85	28679		0,2	30	0,32 / 0,001	MINIMELF
S BAT 41	19339		0,1	100	0,45 / 0,001	DO-35
S BAT 42	19340		0,2	30	0,40 / 0,01	DO-35
S BAT 43	19341		0,2	30	0,33 / 0,002	DO-35
S BAT 46	19343		0,15	100	0,45 / 0,01	DO-35
S BAT 48	19345		0,35	40	0,50 / 0,05	DO-35
S BAT 85	24112		0,2	30	0,40 / 0,01	DO-35
S LL 103 A	61215	DIOTEC	0,2	20	0,37 / 0,02	MINIMELF
O LL 5819	50338		1	40	0,6/0,001	MELF
S MBR 1045	29531	ON SEMI	10	45	0,84 / 20,0	DO-220
S MBR 1060	6970	ON SEMI	10	60	0,95 / 20,0	DO-220
S MBR 1545 CT	29536	ON SEMI	2 x 7,5	45	0,84 / 15	TO-220
S MBR 1645	29527	ON SEMI	16	45	0,63 / 16,0	DO-220
S MBR 20100 CT	40718	ON SEMI	2 x 10	100	0,95 / 20	TO-220
O MBR B 20100 CTT4G	62861	ON SEMI	2 x 10	100	0,95 / 10	TO-262AB
S MBR 20200 CT	6973	ON SEMI	2 x 10	200	0,95 / 20	TO-220
S MBR 2045 CT	29537	ON SEMI	2 x 10	45	0,84 / 20	TO-220
S MBR 2545 CT	32829	ON SEMI	2 x 15	45	0,57 / 15	TO-220
S MBR 4045 CT	6974	ON SEMI	2 x 20	45	0,70 / 20	TO-218
S MBR 745	29529	ON SEMI	7,5	45	0,84 / 15,0	DO-220
S MBR 760	6717	ON SEMI	7,5	60	0,75 / 15,0	DO-220
O MBRS 340 T3G	47559	ON SEMI	3	40	0,525 / 3,0	DO-214AB (SMC)
S SB 1100	61196	DIOTEC	1	100	0,85 / 1,0	DO-15
S SB 120 = 1 N 5817	29520	DIOTEC	1	20	0,45 / 1,0	DO-41
S SB 130 = 1 N 5818	29521	DIOTEC	1	30	0,55 / 1,0	DO-41
S SB 140 = 1 N 5819	29522	DIOTEC	1	40	0,60 / 1,0	DO-41
S SB 160	5106	DIOTEC	1	60	0,67 / 1,0	DO-41
S SB 3100	61198	DIOTEC	3	100	0,79 / 3,0	DO-201AD
S SB 340 = 1 N 5822	36408	DIOTEC	3	40	0,39 / 1,0	DO-201AD
S SB 360	5107	DIOTEC	3	60	0,74 / 3,0	DO-201AD
S SB 540	4570	DIOTEC	5	40	0,67 / 5,0	DO-201AD
S SB 560	14059	DIOTEC	5	60	0,67 / 5,0	DO-201AD
S SGL 1-100	61216	DIOTEC	1	100	0,82 / 1,0	MINIMELF
S SGL 1-40	55059	DIOTEC	1	40	0,5 / 1,0	MINIMELF
S SK 110	61221	DIOTEC	1	100	0,85 / 3	DO-214AC (SMA)
S SK 15	54890	DIOTEC	1	50	0,70 / 3	DO-214AC (SMA)
O SK 1540 PQ	72489	DIOTEC	15	40	0,45/5	POWER QFN
S SK 310 A	53638	DIOTEC	3	100	0,85 / 3	DO-214AC (SMA)
S SK 34	73735	DIOTEC	3	40	0,5/3	DO-214AB (SMC)
S SK 54	58750	DIOTEC	5	40	0,55 / 5	DO-214AB (SMC)
S STPS 340 S = B340	29519		3	40	0,63 / 3,0	DO-214AB (SMC)
O STPS2H100U	61099		2	100	0,6 / 2,0	DO-214AA (SMB)
O TMM BAT 41	26982		0,1	100	0,45 / 0,001	MINIMELF
S TMM BAT 43	26984		0,2	30	0,33 / 0,002	MINIMELF
S TMM BAT 46	26985		0,15	100	0,45 / 0,01	MINIMELF
S TMM BAT 48 SMD	26986		0,35	40	0,3/0,01	MINIMELF

Housing dimensions can be found in the back of the catalogue.

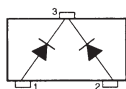
BAR 43



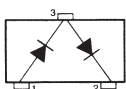
BAR 43A



BAR 43C



BAR 43S



Capacitance Diodes

Part No.	Ord.No.	U_{max}/I_{max}	$C[pF]@U$	Housing
S BBY 40	23897	28V/20mA	4,6/28V - 45/1V	SOT-23 (S2)
S BBY 51	34985	7V/20mA	3,1/4V - 5,3/1V	SOT-23 (S3s)

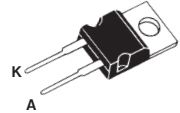
DO - 201AD



DO-214AB



DO - 220



DO - 35



DO - 41



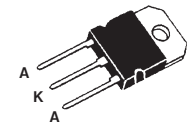
MiniMELF



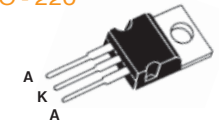
SOT-23



TO - 218



TO - 220



SOT-23



Zener Diodes



Part No.	ZD SOT (BZX 84 C) 0,3 W	ZD MM (BZV 55 C) 0,5 W	ZD 0,5W (BZX 79 C) 0,5 W	ZD 1,3W (BZX 85 C) 1,3 W	ZD 2W 2 W
	SOT-23 package of 3000 pcs	MINIMELF (SOD80) package of 2500 pcs	DO-35 package of 2500 pcs	DO-41 package of 5000 pcs	DO-15 package of 5000 pcs

Uz[V]	Ord.No.	Ord.No.	Ord.No.	Ord.No.	Ord.No.
2,4			S 14165		
2,7	S 19567	S 22574	S 14166	O 4415	
3,0	O 19568	S 22575	S 14167		
3,3	S 19569(Z14)	S 22576	S 14168		
3,6	O 26991(Z15)	O 26992	S 14169	S 14202	
3,9	O 22886	S 26993	S 14170		
4,3	O 19570	O 22577	S 14171	S 14204	O 7347
4,7	S 19571(Z1)	S 22578	S 14172	S 14205	O 7420
5,1	S 19572(Z2)	S 22579	S 14173	S 14206	O 51898
5,6	O 19573(Z3)	S 22580	S 14174	S 14207	O 4468
6,2	O 19574(Z4)	S 22581	S 14175	S 14208	O 4694
6,8	O 19575(Z5)	S 22582	S 14176	S 14209	O 8895
7,5	O 19576(Z6)	S 22583	S 14177	S 14210	O 4704
8,2	O 19577	S 22584	S 14178	S 14211	O 6310
9,1	O 19578	S 22585	S 14179	S 14212	O 5907
10	O 19579(Z9)	S 22586	S 14180	S 14213	O 4703
11	O 19580(Y1)	O 22587	S 14181	S 14214	O 4702
12	S 19581(Y2)	S 22588	S 14182	S 14215	O 9459
13	O 19582(Y3)	O 22589	S 14183	S 14216	O 2559
15	O 19583(Y4)	S 22590	S 14184	S 14217	O 51897
16	O 19584(Y5)	O 22591	S 14185	S 14218	O 4701
18	O 19585(Y6)	S 22592	S 14186	S 14219	O 2576
20	O 19586(Y7)	O 22593	S 14187	S 14220	S 5906
22	O 19587(Y8)	O 22594	O 14188	S 14221	O 50340
24	O 19588(Y9)	O 22595	O 14189	S 14222	S 5260
27	O 25111(Y10)	O 25123	S 14190	S 14223	O 5506
30	O 25112(Y11)	O 25124	S 14191	S 14224	O 4675
33	O 25113(Y12)	O 25125	S 14192	S 14225	O 4963
36	O 25114(Y13)	O 25126	O 14193	O 14226	
39	O 25115(Y14)	O 25127	O 14194	S 14227	O 2236
43	O 25116(Y15)	O 25128	O 14195	S 14228	
47	O 25117(Y16)	O 25129	O 14196	O 14229	O 4700
51	O 25118	O 25130	O 14197	S 14230	
56	O 25119	O 25131	O 14198	O 14231	O 4964
62	O 25120	O 25132	O 14199	O 14232	
68	O 25121	O 25133	O 14200	O 14233	O 8896
75	O 25122	O 25134	O 14201	O 14234	O 4699
82				O 7179	O 5552
91				O 6768	
100				O 5646	O 4695
120				O 45443	O 7926
150				S 2310	O 4696
180				S 3892	O 4697
200				S 2884	O 4698

We supply also SMA (1W), SMB (2W), SMC (3W) diodes and 5W Zener diodes.

Comparison table

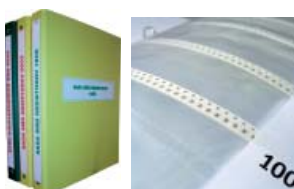
ZD SOT	ZD MM	ZD 0,5W	ZD 1,3W	ZD 2W
BZX 84C	BZV 55C	BZX 79C	BZX 85C	ZY
	ZMM	BZX 55C	BZX 85C	
	BZT 55C	ZPD	ZPY	
	TZMC	BZX 83		

Housing

ZD SOT
ZD MM
ZD 0,5W
ZD 1,3W
ZD 2W

SMD Diodes SET

SMD diodes SET suitable for developers. 7 types of diodes, 50 pcs each.



Type	Ord.No.	Description
S SET DSMD	51653	SMD diodes SET, 7 types/50 pcs

Housing dimensions can be found in the back of the catalogue.

S - in-stock product O - on order product

Transil Suppressor Diodes

are passive electronic components used to protect sensitive electronics from voltage spikes induced on connected wires. Their wide range of application is in the protection of computer and telecommunication technology, in automobile industry, but also in the 230V network distribution.

They are produced in two versions:

1) Unidirectional



2) Bidirectional

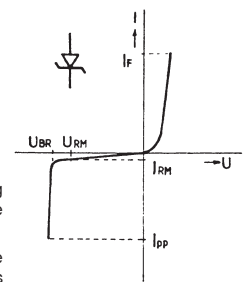


The device operates by shunting excess current when the induced voltage exceeds the avalanche breakdown potential. It is a clamping device, suppressing all overvoltages above its breakdown voltage. Like all clamping devices, it automatically resets when the overvoltage goes away, but absorbs much more of the transient energy internally than a similarly rated crowbar device.

A transient voltage suppression diode may be either unidirectional or bidirectional. An unidirectional device operates as a rectifier in the forward direction like any other avalanche diode, but is made and tested to handle very large peak currents. The popular 1.5KE series allows 1500 W of peak power, for a short time.

A bidirectional transient voltage suppression diode can be represented by two mutually opposing avalanche diodes in series with one another and connected in parallel with the circuit to be protected. While this representation is schematically accurate, physically the devices are now manufactured as a single component.

A transient voltage suppression diode can respond to over-voltages faster than other common over-voltage protection components such as varistors or Zener diodes. The actual clamping occurs in roughly one picosecond, but in a practical circuit the inductance of the wires leading to the device imposes a higher limit. This makes transient voltage suppression diodes useful for protection against very fast and often damaging voltage transients. These fast over-voltage transients are present on all distribution networks and can be caused by either internal or external events, such as lightning or motor arcing.



$U_{BR}[V]$ = breakdown voltage

$U_{RM}[V]$ = stand-off voltage

Part No.	Ord.No.	Manufact.	Original marking	Ubr[V]	Urm[V]	Housing
600W/1ms Transil diodes, unidirectional = A suffix, bidirectional = CA suffix						
S P 6 SMB 6,8 A	6464	DIOTEC	P6SMBJ5V8A	6,8	5,8	DO-214AA
S P 6 SMB 15 A	6977	DIOTEC	P6SMBJ13A	15	12,8	DO-214AA
S P 6 SMB 18 A	6978	DIOTEC	P6SMBJ15A	18	15,3	DO-214AA
S P 6 SMB 33 A	6979	DIOTEC	P6SMBJ28A	33	28,2	DO-214AA
S P 6 SMB 6,8 CA	5525	DIOTEC	P6SMBJ5V8CA	6,8	5,8	DO-214AA
S P 6 SMB 15 CA	6975	DIOTEC	P6SMBJ13CA	15	12,8	DO-214AA
S P 6 SMB 18 CA	6250	DIOTEC	P6SMBJ15CA	18	15,3	DO-214AA
S P 6 SMB 33 CA	6976	DIOTEC	P6SMBJ28CA	33	28,2	DO-214AA
600W/1ms Transil diodes, unidirectional = without suffix, bidirectional = B suffix						
S BZW 06-5V8	29451	DIOTEC	P6KE6,8A	6,8	5,8	DO-15
S BZW 06-5V8 B	29460	DIOTEC	P6KE6,8CA	6,8	5,8	DO-15
S BZW 06-13	5317	DIOTEC	P6KE15A	15	13	DO-15
S BZW 06-15	29453	DIOTEC	P6KE18A	18	15	DO-15
S BZW 06-26	29456	DIOTEC	P6KE30A	30	26	DO-15
S BZW 06-33	29459	DIOTEC	P6KE39A	39	33	DO-15
S BZW 06-10 B	29484	DIOTEC	P6KE12CA	12	10	DO-15
S BZW 06-13 B	29485	DIOTEC	P6KE15CA	15	13	DO-15
S BZW 06-15 B	29486	DIOTEC	P6KE18CA	18	15	DO-15
S BZW 06-23 B	29488	DIOTEC	P6KE27CA	27	23	DO-15
S BZW 06-26 B	29489	DIOTEC	P6KE30CA	30	26	DO-15
S BZW 06-33 B	29491	DIOTEC	P6KE39CA	39	33	DO-15
S BZW 06-48 B	29496	DIOTEC	P6KE56CA	56	48	DO-15
S BZW 06-376 B	29504	DIOTEC	P6KE440CA	440	376	DO-15
1500W/1ms Transil diodes, unidirectional = A suffix, bidirectional = CA suffix						
S 1,5 KE 6,8 A	6429	DIOTEC		6,8	5,8	DO-201
S 1,5 KE 6,8 CA	6433	DIOTEC		6,8	5,8	DO-201
S 1,5 KE 18 A	29468	DIOTEC		18	15,3	DO-201
S 1,5 KE 33 A	29473	DIOTEC		33	28,2	DO-201
S 1,5 KE 47 A	29476	DIOTEC		47	40,2	DO-201
S 1,5 KE 18 CA	29494	DIOTEC		18	15,3	DO-201
S 1,5 KE 33 CA	29499	DIOTEC		33	28,2	DO-201
S 1,5 KE 36 CA	29500	DIOTEC		36	30,8	DO-201
O 1,5 KE 39 CA	29501	DIOTEC		39	33	DO-201
S 1,5 KE 47 CA	2640	DIOTEC		47	40,2	DO-201
S 1,5 KE 400 A	5315	DIOTEC		400	342	DO-201
S 1,5 KE 400 CA	5316	DIOTEC		400	342	DO-201
S 1,5 KE 440 CA	9287	DIOTEC		440	376	DO-201
S DVIULC6-4SC6	68080			6	5	SOT23-6L

DO-214AA



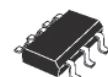
DO-15



DO-201



SOT23



Housing dimensions can be found in the back of the catalogue. Above presented Transil diodes are 5%, we are able to supply also cost effective 10% Transil diodes on order.

We supply 150W Transil diodes TGL34, 400W Transil diodes BZW 04 (P4KE) and P4 SMA, 1500W Transil diodes 1.5 SMCJ. 5000W Transil diodes 5KP are supplied on order.

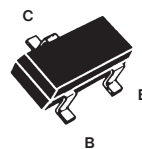
Alternatively we also supply P6KE Transil diode series.

Please, inquire about the prices and minimum quantities.

Bipolar Low Power Transistors

Part No.	Ord.No.	Polarity	Ic[A]	Uce[V]	hFE	Housing
S 2 N 3440	14130	NPN	1	250	40/160	TO39
S 2 N 3904 = ST 3904	6781	NPN	0,2	40	max.300	TO92
S BC 107 B	13597	NPN	0,1	45	200/450	TO18
S BC 141-16	13608	NPN	1	60	100/250	TO39
S BC 161-16	13614	PNP	-1	-60	100/250	TO39
S BC 327-40, 112	65432	PNP	-0,5	-45	250/600	TO92
S BC 327-40, 126	13633	PNP	0,5	45	250/600	TO92
S BC 327-40-BK	75748	PNP	0,5	45	250/600	TO92 (SOT54A)
S BC 327-40, TAPE	75746	PNP	0,5	45	250/600	TO92 (SOT54A)
S BC 337-40, 126	13639	NPN	0,5	45	250/600	TO92
S BC 337-40-BK	75750	NPN	0,5	45	250/600	TO92 (SOT54A)
S BC 337-40 TAPE	75749	NPN	0,5	45	250/600	TO92 (SOT54A)
S BC 546 B	13648	NPN	0,1	65	200/450	TO92
S BC 546 B, 112	29683	NPN	0,1	65	200/450	TO92
S BC 546 B TAPE	75752	NPN	0,1	65	200/450	TO92
S BC 547 B	13650	NPN	0,1	45	200/450	TO92
S BC 547 B-BK	75754	NPN	0,1	45	200/450	TO92
S BC 547 B BULK	73137	NPN	0,1	45	200/450	TO92
S BC 547 C	19349	NPN	0,1	45	420/800	TO92
S BC 547 C, 112	73138	NPN	0,1	45	420/800	TO92
S BC 548 B	13652	NPN	0,1	30	200/450	TO92
S BC 548 C	13653	NPN	0,1	30	420/800	TO92
S BC 549 C	13655	NPN	0,1	30	420/800	TO92
S BC 550 C*	13657	NPN	0,1	45	420/800	TO92
S BC 550 C BULK	73139	NPN	0,1	45	420/800	TO92
S BC 556 B	13659	PNP	-0,1	-65	220/475	TO92
S BC 556 B TAPE	75755	PNP	-0,1	-65	220/475	TO92
S BC 557 B	13661	PNP	-0,1	-45	220/475	TO92
S BC 557 B, 112	29687	PNP	-0,1	-45	220/475	TO92
S BC 557 B-BK	75757	PNP	-0,1	-45	220/475	TO92
S BC 557 B TAPE	75756	PNP	-0,1	-45	220/475	TO92
S BC 557 C	38037	PNP	-0,1	-45	420/800	TO92
S BC 560 C*	13669	PNP	-0,1	-45	420/800	TO92
S BC 560 C BULK	73147	PNP	-0,1	-45	420/800	TO92
S BC 639	13674	NPN	1	80	40/250	TO92
S BC 639 ZL1G	60941	NPN	1	80	40/250	TO92 REEL
S BC 640	60942	PNP	-1	-80	40/250	TO92 REEL
S BC 640	13675	PNP	-1	-80	40/250	TO92
S BC 807-40	22749	PNP	-0,5	-45	250/600	SOT23
S BC 817-40	22753	NPN	0,5	45	250/600	SOT23
S BC 846 B	34787	NPN	0,1	65	200/450	SOT23
S BC 847 B	19592	NPN	0,1	45	200/450	SOT23
S BC 848 B	20433	NPN	0,1	30	200/450	SOT23
S BC 850 B*	23899	NPN	0,1	45	200/450	SOT23
S BC 856 B	19556	PNP	-0,1	-65	220/475	SOT23
S BC 857 B	20434	PNP	-0,1	-45	220/475	SOT23
S BC 858 B	20435	PNP	-0,1	-30	220/475	SOT23
S BC 860 B*	23901	PNP	-0,1	-45	220/475	SOT23
O BC 868	25058	NPN	1	20	85/375	SOT89
S BCP 53-16	28977	PNP	-1	-80	100/250	SOT223
S BCP 56-16	28979	NPN	1	80	100/250	SOT223
S BCW 66 H	34874	NPN	0,8	45	250/630	SOT23
S BCX 53-16	23918	PNP	-1	-80	100/250	SOT89
S BCX 56-16	23922	NPN	1	80	100/250	SOT89
S BDP 949	8229	NPN	3	60	85/475	SOT223
S BDP 950	8230	PNP	-3	-60	85/475	SOT223
O MPSA 06	22449	NPN	0,5	80	min.100	TO92
S MPSA 42*	22452	NPN	0,5	300	min.40	TO92
S MPSA 92*	22455	PNP	-0,5	-300	min.40	TO92
S SMBTA 42	34955	NPN	0,5	300	min.25	SOT23
O SMBTA 92	34958	PNP	-0,5	-300	min.25	SOT23

SOT23



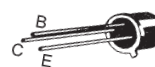
SOT223



SOT89



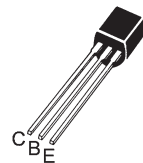
TO18



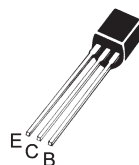
TO39



TO92



TO92 for BC 639, 640



* Developed for AF audio - low-noise

Some of the electronic components have fixed minimum order quantity.
For more information please visit www.soselectronic.com

Bipolar Power Transistors

Part No.	Ord.No.	Polarity	Ic[A]	Uce[V]	Ptot[W]	Housing
S 2 N 3055*	14129	NPN	15	100	115	TO-3
S BD 139	9104	NPN	1,5	80	12,5	TO-126
S BD 139-16	18101	NPN	1,5	80	8	TO-126
S BD 140	70827	PNP	-1,5	-80	12,5	TO-126
S BD 140-16	18103	PNP	-1,5	-80	8	TO-126
S BD 237	13729	NPN	2	80	25	TO-126
S BD 238	13730	PNP	-2	-80	25	TO-126
S BD 239 C	13734	NPN	2	100	30	TO-220
S BD 240 C	6795	PNP	-2	-100	30	TO-220
S BD 241 C	13746	NPN	3	100	40	TO-220
S BD 242 C	13751	PNP	-3	-100	40	TO-220
S BD 243 C	13757	NPN	6	100	65	TO-220
S BD 244 C	13762	PNP	-6	-100	65	TO-220
S BD 245 C	13768	NPN	10	100	80	TO-218
S BD 246 C	13774	PNP	-10	-100	80	TO-218
S BD 249 C	13779	NPN	25	100	125	TO-218
S BD 250 C	13782	PNP	-25	-100	125	TO-218
S BD 441	13800	NPN	4	80	36	TO-126
S BD 442	13801	PNP	-4	-80	36	TO-126
S BD 649	13807	NPN	8	100	63	TO-220
S BD 650	13808	PNP	-8	-100	63	TO-220
S BD 711	13824	NPN	12	100	75	TO-220
S BD 911	13835	NPN	15	100	90	TO-220
S BD 912	13836	PNP	-15	-100	90	TO-220
S BUL 38 D	35683	NPN	10	450	70	TO-220
S MJ 15003*	14042	NPN	20	140	250	TO-3
S MJ 15004*	14043	PNP	-20	-140	250	TO-3
S MJ 15024 G	57102	NPN	16	250	250	TO-3
S MJ 15025 G*	2669	PNP	-16	-250	250	TO-3
S MJE 13003*	52390	NPN	1,5	400	40	TO-126
S MJE 15030*	2760	NPN	8	150	50	TO-220
S MJE 15031 G*	2761	PNP	-8	-150	50	TO-220
S MJE 15032 G*	6535	NPN	1	250	50	TO-220
S MJE 15033 G*	6536	PNP	-1	-250	50	TO-220
S MJE 2955 T*	14048	PNP	-10	-60	75	TO-220
S MJE 3055 T*	14049	NPN	10	60	75	TO-220

* Developed for AF audio.

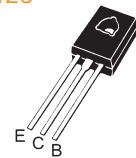
Housing dimensions can be found in the back of the catalogue..

Switching Bipolar Transistors

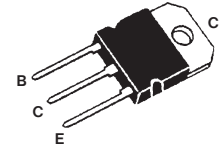
Part No.	Ord.No.	Polarity	Ic[A]	Uce[V]	Ptot[W]	Housing
S BU 2508 AF	29740	NPN	8	700	45	SOT199
S BU 2508 DF	3019	NPN+D	8	700	45	SOT199
S BU 2520 AF	5532	NPN	10	800	45	SOT199
S BU 2520 DF	36399	NPN+D	10	800	45	SOT199
S BU 2525 AF	36401	NPN	12	800	45	SOT199
O BU 2527 AF	6522	NPN	12	800	45	SOT199
S BU 326 A	24130	NPN	6	400	75	TO3
S BU 406	13976	NPN	7	200	60	TO220
S BU 508 AF PHI	24131	NPN	8	700	34	SOT199
S BU 508 AW PHI	40945	NPN	8	700	125	TO247
S BU 508 DF PHI	29738	NPN+D	8	700	34	SOT199
S BUT 11 A	20503	NPN	5	450	83	TO220
O BUT 18 A	28912	NPN	6	450	110	SOT186
S BUV 48 A	18869	NPN	15	450	150	TO218
S BUX 48 A	13996	NPN	15	450	175	TO3
S BUX 85	13998	NPN	2	450	50	TO220
S BUY 69 A	7609	NPN	10	1000	100	TO3
S MJE 13005	20509	NPN	4	400	75	TO220
S MJE 13007	20510	NPN	8	400	80	TO220
S MJE 13009	20511	NPN	12	400	100	TO220
S MJE 340	14044	NPN	0,5	300	21	TO126
S MJE 350	14045	PNP	-0,5	300	21	TO126

Housing dimensions can be found in the back of the catalogue..

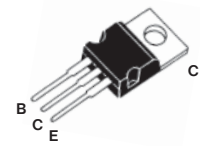
TO126



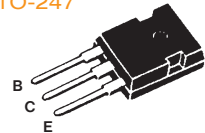
TO218



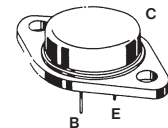
TO220



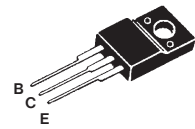
TO-247



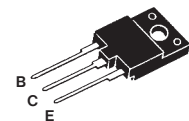
TO3



SOT-186



SOT-199



Darlington Bipolar Transistors

Part No.	Ord.No.	Polarity	Ic[A]	Uce[V]	Ptot[W]	Housing
S BC 516	13645	PNP	-0,4	-30	1	TO-92
S BC 517	13646	NPN	0,4	30	1	TO-92
S BC 879	13680	NPN+Diode	1	80	1	TO-92
S BCV 46	34808	PNP	0,5	60	0	SOT 23
S BCV 47	34809	NPN	0,5	60	0	SOT 23
O BD 678 A	13814	NPN+Diode	4	60	40	TO-126
S BD 679	13815	NPN+Diode	4	80	40	TO-126
S BD 679 A	13816	NPN+Diode	4	80	40	TO-126
S BD 680	13817	PNP+Diode	-4	-80	40	TO-126
S BD 680 A	13818	PNP+Diode	-4	-80	40	TO-126
S BD 681	13819	NPN+Diode	4	100	40	TO-126
S BD 682	13820	PNP+Diode	-4	-100	40	TO-126
S BDW 83 C	13843	NPN+Diode	15	100	150	TO-218
S BDW 84 C	13849	PNP+Diode	-15	-100	150	TO-218
S BDW 93 C	13853	NPN+Diode	12	100	80	TO-220
S BDW 94 C	13855	PNP+Diode	-12	-100	80	TO-220
S BDX 33 C	13858	NPN+Diode	10	100	70	TO-220
S BDX 34 C	13861	PNP+Diode	-10	-100	70	TO-220
S BDX 53 C	13863	NPN+Diode	8	100	60	TO-220
S BDX 54 C	13865	PNP+Diode	-8	-100	60	TO-220
S BSP 52	34885	NPN	1	80	2	SOT 223S
S BU 806	13984	NPN+Diode	8	200	60	TO-220
S BU 808 DFI	45445	NPN+Diode	5	700	50	TO-218
S BU 931	5269	NPN	15	400	175	TO-3
S MJ 11015	22461	PNP	-30	-120	200	TO-3
S MJ 11016	22462	NPN	30	120	200	TO-3
S MJ 4032	19370	PNP+Diode	-16	-100	150	TO-3
S MJ 4035	19371	NPN+Diode	16	100	150	TO-3
O TIP 120	14067	NPN	5	60	65	TO-220
S TIP 122	14069	NPN+Diode	5	100	65	TO-220
S TIP 127	14072	PNP+Diode	-5	-100	65	TO-220
S TIP 132	14075	NPN+Diode	8	100	70	TO-220
S TIP 137	14078	PNP+Diode	-8	-100	70	TO-220
S TIP 142	14080	NPN+Diode	10	100	125	TO-218
S TIP 147	14083	PNP+Diode	-10	-100	125	TO-218
S BCR 108	73533	NPN	0,1	50	0,2	SOT 23
O BCR 108 W	74900	NPN	0,1	50	0,25	SOT 323
O BCR 112 4K7/4K7	238	NPN	0,1	50	0,2	SOT 23
O BCR 133 10K/10K	239	NPN	0,1	50	0,2	SOT 23
O BCR 133 W	70998	NPN	0,1	50	0,25	SOT 323
O BCR 135	74904	NPN	0,1	50	0,2	SOT 23
O BCR 135 W	74905	NPN	0,1	50	0,25	SOT 323
O BCR 141	74906	NPN	0,1	50	0,2	SOT 23
O BCR 142	74909	NPN	0,1	50	0,2	SOT 23
O BCR 148 W	74915	NPN	0,1	50	0,25	SOT 323
O BCR 169	74918	NPN	0,1	50	0,2	SOT 23
O BCR 185	74919	NPN	0,1	50	0,2	SOT 23
O BCR 191	74920	NPN	0,1	50	0,2	SOT 23
O BCR 198 W	74921	NPN	0,07	50	0,25	SOT 323
S BCR 512 E6327	11734	NPN	0,5	50	0,33	SOT 23
O BCR 533 10K/10K	242	NPN	0,5	50	0,33	SOT 23
O BCR 562 4K7/4K7	11735	PNP	-0,5	-50	0,33	SOT 23

HF Bipolar Transistors

Part No.	Ord.No.	Vod.	Ic[mA]	Uce[V]	Ptot[W]	fT[GHz]	F[dB]	Housing
S AT-41511-BLKG	4012	NPN	50	12	225	8	1	SOT-143
S AT-41586-BLKG	2732	NPN	60	12	500	8	1,4-1,7	SOT 47
S BF 199	13871	NPN	25	25	500	550	-	TO-92 CEB*
S BF 259	13891	NPN	100	300	1000	90	-	TO 39
S BF 422	13900	NPN	50	250	830	60	-	TO-92 ECB*
S BF 423	13901	PNP	-50	-250	830	60	-	TO-92 ECB*
S BF 470	13908	PNP	-30	-250	2000	60	-	TO-126
S BFP 420	3602	NPN	35	4,5	160	22	1,05	SOT-343(AMs)
S BFR 90	13929	NPN	30	15	300	5	2,2	SOT 37
S BFR 90 A	3825	NPN	30	15	300	6	1,8	SOT 37
S BFR 91 A	13930	NPN	35	12	300	6	1,6-2,3	SOT 37
S BFR 92 A	23931	NPN	30	15	200	6	1,8	SOT-23(+P2)

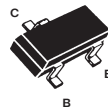
SOT143



SOT223



SOT23



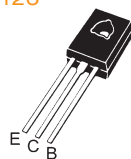
SOT343



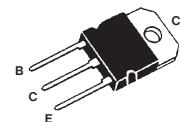
SOT37



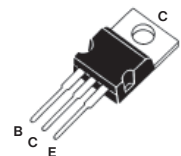
TO126



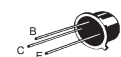
TO218



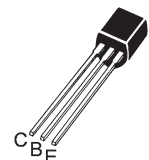
TO220



TO39



TO92



HF Bipolar Transistors (continued)

S	BFR 93 A	23932	NPN	35	12	300	6	1,6-2,1	SOT-23(+R2)
S	BFR 96 TS	30148	NPN	100	15	700	5	3,3-4	SOT 37

IGBT Modules

The insulated gate bipolar transistor or IGBT is a three-terminal power semiconductor device, noted for high efficiency and fast switching. It switches electric power in many modern appliances: electric cars, variable speed refrigerators, air-conditioners and even stereo systems with switching amplifiers. The IGBT combines the simple gate-drive characteristics of the MOSFETs with the high-current and low-saturation-voltage capability of bipolar transistors by combining an isolated gate FET for the control input, and a bipolar power transistor as a switch, in a single device. The IGBT is used in medium- to high-power applications such as switched-mode power supply, traction motor control and induction heating.

Part No.	Ord.No.	Uds[V]	Id[mA]	Ptot[W]	Housing
S BUP 212	34193	1200	22	125	TO-220
S BUP 313	34196	1200	32	200	TO-218
S BUP 314	40135	1200	52	300	TO-218

Housing dimensions can be found in the back of the catalogue..

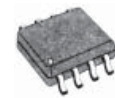
Low-Power Field-Effect Transistors (Small Signal MOSFETs)

Part No.	Ord.No.	Polarity	Uds[V]	Id[mA]	Ptot[W]	Rdson[Ω]	Housing
S BF 245 A	13876	JFET-N	30	25	300	$I_{DSS}=6,5mA$	TO-92 GSD*
S BF 245 B	13877	JFET-N	30	25	300	$I_{DSS}=15mA$	TO-92 GSD*
S BF 245 C	13878	JFET-N	30	25	300	$I_{DSS}=25mA$	TO-92 GSD*
O BF 998	29462	BIFET N	12	30	-	-	SOT-143
S BS 107	13943	VMOS-N	200	250	350	14R	TO-92 GSD*
S BS 107 BULK	73149	VMOS-N	200	150		14R	TO-92
S BS 108	36403	VMOS-N	200	250	1000	8R	TO-92 GSD*
S BS 170	13944	VMOS-N	60	500	830	5R	TO-92 GSD*
S BS 170 BULK	73151	VMOS-N	60			5R	TO-92
S BS 250	13945	VMOS-P	-45	-250	830	14R	TO-92 GSD*
S BSN 20	36393	MOSFET-N	50	100	250	15R	SOT-23
S BSS 123	32794	MOSFET-N	100	170	300	6R	SOT-23
S BSS 138	34802	MOSFET-N	50	200	360	3,5R	SOT-23
S BSS 83 P	8231	MOSFET-P	-60	-330	360	2R	SOT-23
S BSS 84	32792	MOSFET-P	-50	-130	360	10R	SOT-23

Power Field-Effect Transistors (Power MOSFETs)

Part No.	Ord.No.	Polarity	Uds [V]	Id[A]	Ptot[W]	Rdson[Ω]	Housing
S BSP250	40273	FET P	-30	-3	5	0,25	SOT 223
S BUZ11	22440	FET N	50	30	75	0,04	TO 220
S BUZ71A	20501	FET N	55	16	70	0,12	TO 220
S BUZ80A	32787	FET N	800	3	75	3	TO 220
S BUZ90	24156	FET N	600	6	75	1,6	TO 220
O FDS6875	48213	FET 2xP	-20	-6	2	0,03	SO 8
S IRF1010N	3743	FET N	55	84	170	0,011	TO 220
O IRF1405	47260	FET N	55	169	330	0,0053	TO 220
O IRF2807S	46572	FET N	75	82	200	0,013	D2PAK
S IRF3205	6961	FET N	55	110	200	0,008	TO 220
S IRF3710	6986	FET N	100	57		0,023	TO 220
S IRF4905	11728	FET P	-55	-74	200	0,02	TO 220
S IRF510	2487	FET N	100	5,6	43	0,4	TO 220
S IRF520	22445	FET N	100	9,2	60	0,27	TO 220
S IRF530	22446	FET N	100	16	90	0,16	TO 220
S IRF530N	71967	FET N	100	17	70	0,9	TO 220
S IRF540	22447	FET N	100	28	150	0,077	TO 220
S IRF540N	4335	FET N	100	33	130	0,044	TO 220
S IRF630	40819	FET N	200	9	74	0,4	TO 220
S IRF640	32783	FET N	200	18	125	0,18	TO 220
S IRF640N	67650	FET N	18	200	150	0,15	TO 220
O IRF710	45942	FET N	400	2	36	3,6	TO 220
S IRF730	32784	FET N	400	5,5	100	1	TO 220
S IRF7301	47592	FET 2XN	20	5,2	2	0,05	SO8
S IRF7314	55477	FET 2XP	-20	-5,3		0,058	SO8
S IRF7341	9597	FET 2XN	55	4,7	2	0,05	SO 8
S IRF7342	9596	FET 2xP	-55	-3,4	2	0,105	SO 8
S IRF7343	9595	FET N+P	55	+4,7/-3,4	2	0,05/0,105	SO 8
S IRF740	22457	FET N	+/-400	10	125	0,55	TO 220
O IRF7450	9594	FET N	200	2,5	2,5	0,17	SO 8
S IRF 820	22458	FET N	500	2,5	50	3,0	TO 220
S IRF 830	22459	FET N	500	4,5	100	1,5	TO 220

SO-8



SOT-143



SOT-23



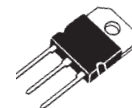
SOT-223



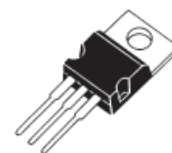
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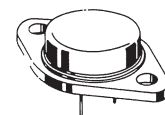
TO 218



TO-220



TO3



TO92



Power Field-Effect Transistors (Power MOSFETs) (continued)

Part No.	Ord.No.	Polarity	Uds[V]	Id[A]	Ptot[W]	Rdson[Ω]	Housing
S IRF 840	32785	FET N	500	8	125	0,88	TO 220
S IRF 9520	7406	FET P	-100	-6	60	0,6	TO-220
S IRF 9530	2912	FET P	-100	-12	88	0,3	TO 220
S IRF 9540	40820	FET P	-100	-19	150	0,2	TO-220
S IRF 9630	40822	FET P	-200	-6,5	74	0,8	TO-220
S IRF 9640	3145	FET P	-200	-11	125	0,5	TO 220
S IRFB 3206	72417	FET N	60	75	300	0,003	TO-220AB
S IRFB 4110	61278	FET N	100	180	370	0,0045	TO-220
S IRFBC 30	6962	FET N	600	3,6	74	2,2	TO-220
O IRFBC 40	7516	FET N	600	6,2	125	1,2	TO-220
S IRFBE 30	4223	FET N	800	4,1	125	3	TO-220
S IRFBG 30	6963	FET N	1000	3,1	125	5	TO-220
S IRFD 024	4782	FET N	60	2,5	1,3	0,1	DIP-4
S IRFD 110	40823	FET N	100	1	1,3	0,54	DIP-4
S IRFD 9024	4553	FET P	-60	-1,6	1,3	0,28	DIP-4
S IRFD 9120	4787	FET P	-100	-1	1,3	0,6	DIP-4
S IRFI 540 N	4691	FET N	100	20	54	0,052	TO-220ISO
S IRFIBC 30G	9231	FET N	600	2,5	35	2,2	TO-220ISO
S IRFP 054 N	55491	FET	55	81	170	0,012	TO-247AC
S IRFP 150	2737	FET N	100	40	230	0,06	TO-247
S IRFP 240	4800	FET N	200	20	150	0,18	TO-247
S IRFP 250	3406	FET N	200	30	190	0,09	TO-247
S IRFP 450	28867	FET N	500	14	180	0,4	TO-247
S IRFP 460	2885	FET N	500	20	280	0,27	TO-247
S IRFP 9240	4801	FET P	-200	-12	150	0,5	TO-247
O IRFPC 50	3959	FET N	600	11	180	0,6	TO-247AC
O IRFPE 40	5742	FET N	800	5,4	150	2	TO-247
S IRFR 024 N	2853	FET N	55	16	38	0,075	TO-252AA
S IRFR 220	2855	FET N	200	4,8	42	0,8	TO-252AA
S IRFR 9024	6959	FET P	-60	-8,8	42	0,28	TO-252AA
S IRFU 024 N	5703	FET N	60	14	42	0,1	TO-251AA
S IRFU 9024	6960	FET P	-60	-8,8	42	0,28	TO-251AA
S IRFZ 24 N	5290	FET N	55	17	45	0,07	TO 220
S IRFZ 34 N	6964	FET N	55	26	56	0,04	TO 220
S IRFZ 44 N	4437	FET N	55	41	83	0,024	TO 220
S IRFZ 46 N	6965	FET N	55	46	88	0,02	TO 220
S IRFZ 48 N	3709	FET N	55	53	94	0,016	TO 220
O IRL 2203 N	55034	FET N-LogL	30	116	180	0,007	TO 220
S IRL 540 N	8233	FET N-LogL	100	36	94	0,044	TO 220
S IRLU 024 N	5515	FET N	60	14	45	0,065	DPAK
S IRLZ 24 N	4715	FET N	55	18	45	0,06	TO 220
S Si 4410 BDY	47832	FET N	30	10	2,5	0,0135	SO-8
O Si 4425 BDY-E3	53033	FET P	-30	-11	2,5	0,012	SO-8
S Si 4435 BDY-E3	47833	FET P	-30	-8	2,5	0,02	SO-8
O Si 4532 DY	4992	FET N+P-Ch	30	3,9	2	0,065	SO-8
S Si 2314 EDS	50407	FET N-ch	20	3,9		0,051	SOT-23

DIP-4



SO-8



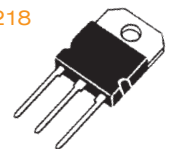
SOT-223



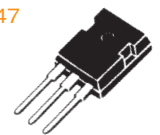
SOT-23



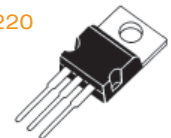
TO-218



TO-247



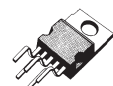
TO-220



TO-220 ISO



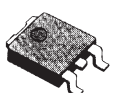
TO-220/5



TO-251AA (I-pak)



TO-252 AA (D-pak)



Current Sense MOSFET Transistors

This series transistors have similar electrical and thermal characteristics as their equivalent types IRF series, but they offer extra two terminals - Kelvin Source and Current Sense for effective control or protection blocks from destruction. Placed in TO220-5 housing.

Part No.	Ord.No.	Note	Uds[V]	Id[mA]	Rdson[Ω]	Housing
O BTS 410 E	34207		50	16	0,19	TO-220/5
S BTS 432	34210	Current Sense	60	11	0,038	TO-220/5
O IRC 740	8982	Current Sense	400	10	0,55	TO-220/5

2S Series Transistor

Part No.	Ord.No.	Polarity	Umax[V]	Imax[A]	Ptot[W]	Housing
S 2 SA 1306	3488	PNP	-160	-1,5	50	TO-220
S 2 SA 1943	4211	PNP	-230	-15	150	TO-3P
S 2 SC 3281	20839	NPN	200	15	150	TO-247
S 2 SC 3298	20356	NPN	160	1,5	20	TO-220
S 2 SD 1555	23850	NPN	600	5	50	TO-247
O 2 SK 2610	42865	MOSFET-N	900	5	150	TO-218
S 2 SK 2750	44667	MOSFET-N	600	3,5	35	TO-220

Housing dimensions can be found in the back of the catalogue.

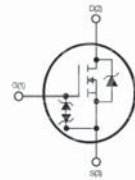
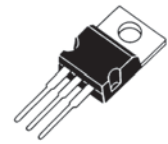
S - in-stock product O - on order product

ST MICROELECTRONICS Power MOSFETs

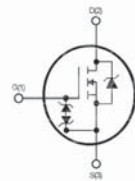
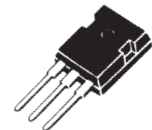
Part No.	Polarity	Uds[V]	I _{max} [A]	P _{tot} [W]	R _{dson} [Ω]	Housing
○ STP3NK80Z	N-Ch	800	2,5	70	4,5	TO 220
○ STP3NK90Z	N-Ch+Z-Dio	900	3	90	4,8	TO 220
○ STP4NK50Z	N-Ch+Z-Dio	500	3	45	2,7	TO 220
○ STP4NK60Z	N-Ch+Z-Dio	600	4	70	2	TO 220
○ STP5NK50Z	N-Ch+Z-Dio	500	4,4	70	1,5	TO 220
○ STP5NK80Z	N-Ch+Z-Dio	800	4,3	110	2,4	TO 220
○ STP5NK100Z	N-Ch+Z-Dio	1000	3,5	125	3,7	TO 220
○ STP6NK60Z	N-Ch+Z-Dio	600	6	110	1,2	TO 220
○ STP6NK90Z	N-Ch+Z-Dio	900	5,8	140	2	TO 220
○ STP7NK40Z	N-Ch+Z-Dio	400	5,4	70	1	TO 220
○ STP7NK80Z	N-Ch+Z-Dio	800	5,2	125	1,8	TO 220
○ STP9NK50Z	N-Ch+Z-Dio	500	7,2	110	0,85	TO 220
○ STP9NK60Z	N-Ch+Z-Dio	600	7	125	0,95	TO 220
○ STP10NK60Z	N-Ch+Z-Dio	600	10	115	0,75	TO 220
○ STP11NK40Z	N-Ch+Z-Dio	400	9	110	0,55	TO 220
○ STP11NK50	N-Ch+Z-Dio	500	10	125	0,52	TO 220
○ STP14NK60Z	N-Ch+Z-Dio	600	13,5	160	0,5	TO 220
○ STP16NF06	N-Ch	60	16	45	0,1	TO 220
○ STP20NF06L	N-Ch	60	20	60	0,07	TO 220
○ STP30NF10	N-Ch	100	35	115	0,045	TO 220
○ STP36NF06	N-Ch	60	30	70	0,04	TO 220
○ STP36NF06L	N-Ch	60	30	70	0,048	TO 220
○ STP40NF10L	N-Ch	100	40	150	0,33	TO 220
○ STP60NF10	N-Ch	100	80	300	0,023	TO 220
○ STP80NF10	N-Ch	100	80	300	0,015	TO 220
○ STW11NK100Z	N-Ch	1000	8,3	230	1,38	TO 247
○ STW12NK90Z	N-Ch+Z-Dio	900	11	230	0,88	TO 247
○ STW13NK60Z	N-Ch+Z-Dio	600	13	150	0,55	TO 247
○ STW14NK50Z	N-Ch+Z-Dio	500	14	150	0,38	TO 247
○ STW18NK80Z	N-Ch+Z-Dio	800	19	350	0,38	TO 247
○ STW20NK50Z	N-Ch+Z-Dio	500	17	190	0,27	TO 247
○ STW34NB20	N-Ch	200	34	180	0,075	TO 247
○ STW40N20	N-Ch	200	40	160	0,045	TO 247



TO-220



TO-247



SOS electronic
- partner of ST MICROELECTRONICS



Transistors

- IGBTs
- 1200V
- 300-400V
- 600V

Power MOSFETs

- N-Channel (12V to 40V)
- N-Channel (>150V to 400V)
- N-Channel (>400V to 650V)
- N-Channel (>40V to 150V)
- N-Channel (>650V) [84]
- P-Channel (-20V to -250V)

Transistors, Emitter Switched Bipolar

- ESBT High Power

Transistors, Power Bipolar

- Darlington
- High Voltage
- Low - Medium Voltage
- Low Voltage - High Performance
- Very High Voltage

Transistors, Radio Frequency

- Bipolar 12/50 V HF/VHF & UHF Applications
- Bipolar Small Signal 0.5 - 5 GHz
- DMOS ISM & FM Broadcast Applications
- LD MOS 28 V HF/VHF/UHF/900 MHz & Avionics Applications
- LD MOS 7/12 V HF/VHF/UHF/900 MHz Applications



We provide wide range
of ST MICROELECTRONICS MOSFET transistors.

Thyristors

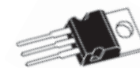
Part No.	Ord.No.	I _{max} [A]	U _{max} [V]	I _{gt} [mA]	Housing
S BT 151-500 R	16309	12	500	15	TO-220
S BT 151-650 R	16307	12	650	15	TO-220
S BT 151-800 R	16308	12	800	15	TO-220
S BT 152-600 R	16312	20	600	32	TO-220
S BT 152-800 R	18357	20	800	32	TO-220
O BTW 68-800 RG	7525	35	800	50	TOP-3
S BTW 69-1200	32825	50	1200	80	TOP-3
S C 106 D1=M1	16306	4	400	0,2	TO-126
S MCR 100-8	40669	0,8	600	0,2	TO-92
S P 0102 DA	36738	0,8	400	0,2	TO-92
S TIC 106 M	19283	5	600	0,2	TO-220
S TIC 106 N	19284	5	800	0,2	TO-220
S TIC 126 M	19287	12	600	20	TO-220
S X 0202 MA	36758	1,25	600	0,2	TO-92

Lower voltages thyristors TIC (B,D series) can be replaced with M series.
Housing dimensions can be found in the back of the catalogue.

TO - 92



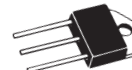
TO - 220



TO - 126



TOP - 3



Triacs

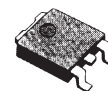
Part No.	Ord.No.	I _{max} [A]	U _{max} [V]	I _{gt} [mA]	Housing
S BT 136-800 E	24553	4	800	15	TO-220
S BT 137-800	16327	8	800	20	TO-220
S BT 138-800	16330	12	800	30	TO-220
S BT 139-800	24572	16	800	30	TO-220
S BTA 12-600 B	19300	12	600	50	TO-220ISO
S BTA 16-600 B	19302	16	600	50	TO-220ISO
S BTA 26-600 B	29160	25	600	80	TOP-3
S BTA 40-600 B	32819	40	600	80	RD-91
S BTA 41-600 B	29164	40	600	80	TOP-3
S T 435-600 B	44812	4	600	35	D-PAK
S TIC 206 M	19290	4	600	30	TO-220
S TIC 216 M	22895	6	600	30	TO-220
S TIC 226 M	19292	8	600	30	TO-220
S TIC 236 M	19295	12	600	40	TO-220
S TIC 236 N	19296	12	800	50	TO-220
S TIC 246 M	19305	16	600	40	TO-220
S TIC 263 N	22893	25	800	50	TO-218
S Z 0103 MN	48643	1	600	3	SOT223
S Z 0107 DA	40583	1	400	5	TO-92

The BTA series provides an insulated tab (rated at 2500 VRMS).
Housing dimensions can be found in the back of the catalogue.

TO - 92



TO-252 AA (D-pak)



TO - 220



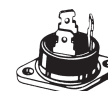
TO - 218



TOP - 3



RD - 91



Purchase on-line at www.soselectronic.com.

Diacs

Part No.	Ord.No.	I _{max} [A]	U _{bo} [V]	P _{tot} [mW]	Housing
S ER 900	16335	2	25-36	150	DO-35

Housing dimensions can be found in the back of the catalogue..

DO-35



For the latest information please visit www.soselectronic.com.