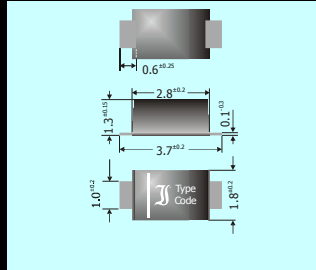
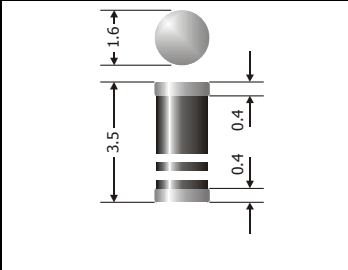
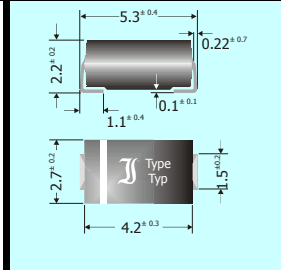
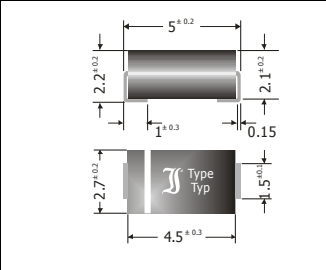
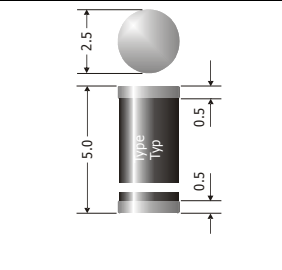


Rectifiers with 1 Amp in SMD are widely used for 50/60Hz input rectification in all kind of electronics. This note deals with optimized solutions for every need.

Package	SOD-123FL	DO-213AA / MiniMelf	Low Cost SMA	DO-214AC / SMA	DO-213AB / Melf
Drawing					
Voltage $V_{RRM}$	50V	GL1A	M1	S1A	SM4001
(high runner)	100V	GL1B	M2	S1B	SM4002
	<b>200V</b>	<b>GL1D</b>	M3	S1D	SM4003
	<b>400V</b>	GL1G	<b>M4</b>	<b>S1G</b>	<b>SM4004</b>
	<b>600V</b>	<b>GL1J</b>	M5	S1J	SM4005
	800V	GL1K	M6	S1K	SM4006
	<b>1000V</b>	<b>GL1M</b>	<b>M7</b>	<b>S1M</b>	<b>SM4007</b>
	1300V	-	-	S1T	SM513
	<b>1600V</b>	-	-	<b>S1W</b>	<b>SM516</b>
	1800V	-	-	S1X	SM518
	2000V	-	-	S1Y	SM2000
Forward voltage drop	$V_F < 1.1V$ at $I_F = 1A$	$V_F < 1.2/1.3V$ at 1A	$V_F < 1.1V$ at $I_F = 1A$	$V_F < 1.1V$ at $I_F = 1A$	$V_F < 1.1V$ at $I_F = 1A$
Forward surge $I_{FSM}$	27/30A (10ms/8.3ms)	27/30A (10ms/8.3ms)	27/30A (10ms/8.3ms)	30/32A (10ms/8.3ms)	40/44A (10ms/8.3ms)
Recommended Solder Method	Wave, Reflow	Wave	Wave, Reflow	Wave, Reflow	Wave
<b>Advantages</b>	<b>Very small package outline</b>	<b>Replaces devices in SOD-87</b>	<b>Low Cost</b>	<b>Available up to 2000V</b>	<b>Highest forward surge capability</b>
<b>Why to buy from Diotec?</b>	Offered in halogen-free package	Over 15 years of experience with this package	Known Brand	Only supplier which offers up to 2000V	Up to 2000V, >20 years of experience