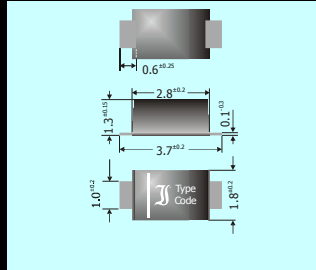
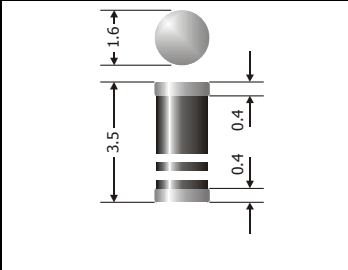
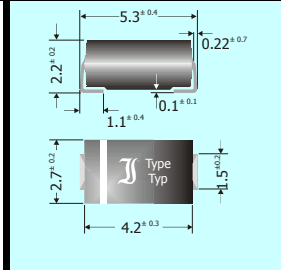
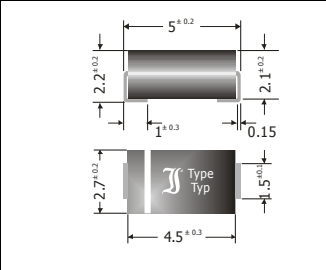
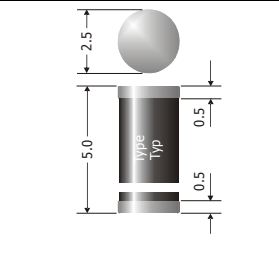


Rectifiers with 1 Amp in SMD are widely used for 50/60Hz input rectification in all kind of electronics. This note deals with optimized solutions for every need.

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
	200V	GL1D	M3	S1D	SM4003
	400V	GL1G	M4	S1G	SM4004
	600V	GL1J	M5	S1J	SM4005
	800V	GL1K	M6	S1K	SM4006
	1000V	GL1M	M7	S1M	SM4007
	1300V	-	-	S1T	SM513
	1600V	NEW	NEW	S1W	SM516
	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
Advantages	Very small package outline	Replaces devices in SOD-87	Low Cost	Available up to 2000V	Highest forward surge capability
Why to buy from Diotec?	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