

Features

- · High Surge Forward Current Capability
- Low Forward Voltage Drop and Low Power Losses
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 2)
- Moisture Sensitivity Level 1

5 Amp Low VF Schottky Rectifier 45 Volts

Maximum Ratings @ 25°C (Unless Otherwise Specified)

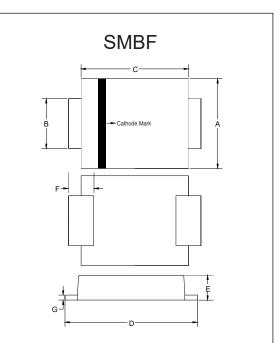
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V_{RRM}		
Working Peak Reverse Voltage	V _{RWM}	45	V
DC Blocking Voltage	V_R		
RMS Reverse Voltage	V _{RMS}	31.5	٧
Average Rectified Forward Current @ T _C =110°C	I _{F(AV)}	5	Α
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I _{FSM}	120	Α
Current Squared Time @1ms≤t≤8.3ms	l ² t	60	A ² s

Internal Structure

Pin	Description	Simplified outline	Graphic symbol		
1	cathode	1 MCC 2			
2	anode	SL545 XXXX = Marking code	1 0— ◀─── 0 2		

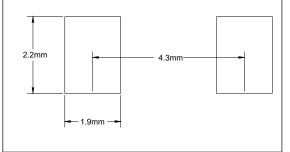
Note:

- 1. High temperature solder exemption applied, see EU directive annex 7a.
- 2. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.



DIMENSIONS						
DIM	DIM INCHES		M _I M		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOIL	
Α	0.134	0.150	3.40	3.80		
В	0.075	0.083	1.90	2.10		
С	0.163	0.175	4.15	4.45		
D	0.201	0.220	5.10	5.60		
E	0.041	0.061	1.05	1.55		
F	0.028	0.053	0.70	1.35		
G	0.006	0.010	0.15	0.25		

Suggested Solder Pad Layout





Thermal characteristics

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T _{stg}	Storage Temperature Range		-55		150	°C
Rth _(J-C)	Thermal Resistance from Junction to Case	Note 1		15		°C/W
Rth _(J-L)	Thermal Resistance from Junction to Lead	Note 1		25		°C/W
Rth _(J-A)	Thermal Resistance from Junction to Ambient	Note 1		65		°C/W

Note:

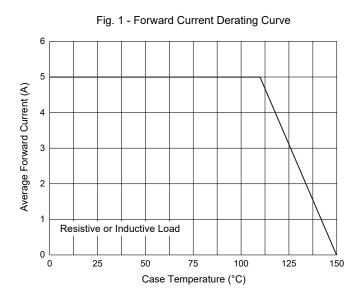
Electrical Characteristics @ 25°C Unless Otherwise Specified

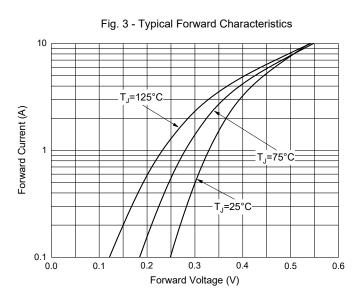
Parameter	Symbol	Test Conditions	Min	Тур	Max	Unit
Forward Voltage	V _F	I _F =5A;T _J =25°C I _F =5A;T _J =125°C			0.45 0.42	V
Reverse Current	I _R	at Rated V _R ;T _J =25°C at Rated V _R ;T _J =125°C			0.5 50	mA
Junction Capacitance	СЈ	V _R =4V;f=1MHz;T _J =25°C		300		pF

 $^{1.} Mounted \ on \ P.C.B. \ with \ 5mm^*5mm \ copper \ pad \ areas.$



Curve Characteristics





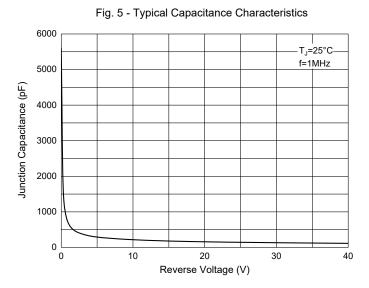


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

120

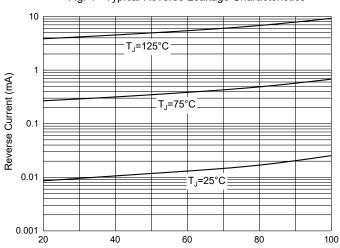
80

80

80

8.3 ms Single Half Sine-Wave
100

Number of Cycles at 60 Hz



Percent of Rated Peak Reverse Voltage (%)

Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel:5Kpcs/Reel		

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