

Features

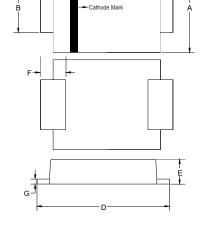
- High Surge Forward Current Capability
- Low Forward Voltage Drop and Low Power Losses
- Lead Free Finish/RoHS Compliant (Note 1)("P" Suffix Designates RoHS Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 2)
- Moisture Sensitivity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

5 Amp				
Low VF Schottky				
Rectifier				
45 Volts				

SMBF

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	V
Average Rectified Forward Current @ T_c =110°C	I _{F(AV)}	5	A
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



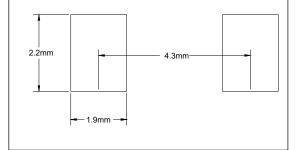
Internal Structure

Description	Simplified outline	Graphic symbol
cathode		
anode	SL545	
	cathode	cathode

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 INCHES MM DIM NOTE MIN MAX MIN MAX A 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 0.041 1.55 Ε 0.061 1.05 0.028 0.053 1.35 F 0.70 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:

1.Mounted on P.C.B. with 5mm*5mm copper pad areas.

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	CJ	V _R =4V;f=1MHz;T _J =25°C		300		pF



Curve Characteristics

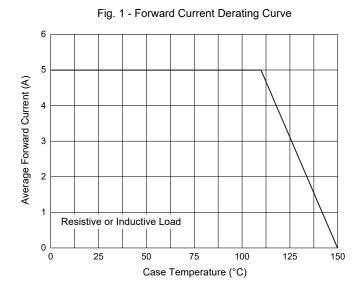
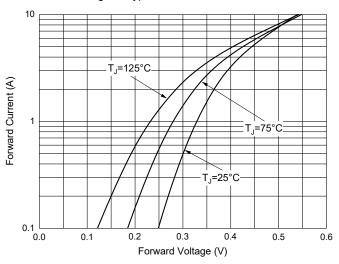
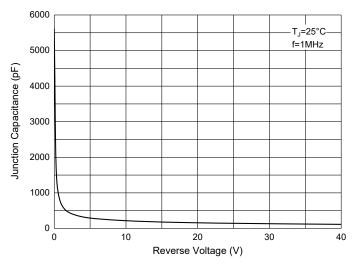


Fig. 3 - Typical Forward Characteristics







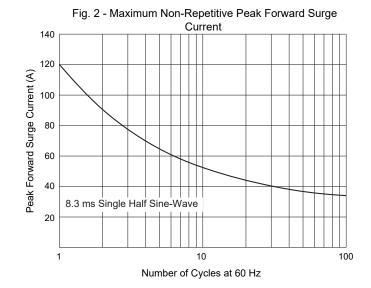
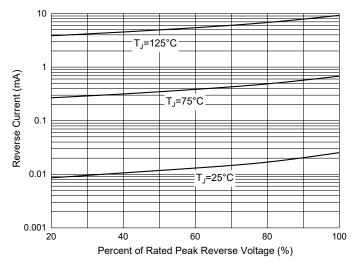


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

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

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