

## 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				
60 Volts				

## Maximum Ratings @ 25°C (Unless Otherwise Specified)

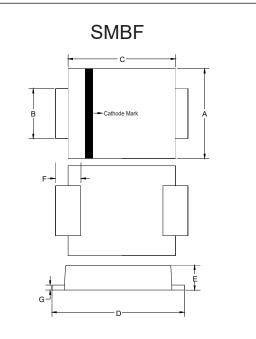
Parameter	Symbol	Value	Unit
Peak Repetitive Reverse Voltage	V <sub>RRM</sub>		
Working Peak Reverse Voltage	V <sub>RWM</sub>	60	V
DC Blocking Voltage	$V_{R}$		
RMS Reverse Voltage	V <sub>RMS</sub>	42	V
Average Rectified Forward Current @ $T_c$ =105°C	I <sub>F(AV)</sub>	5	A
Non-Repetitive Peak Surge Current @ 8.3ms Half Sine Wave	I <sub>FSM</sub>	120	Α
Current Squared Time @1ms≤t≤8.3ms	l <sup>2</sup> t	60	A <sup>2</sup> s



Pin	Description	Simplified outline	Graphic symbol
1	cathode		
2	anode	SL56 XXXX = Marking code	1 o

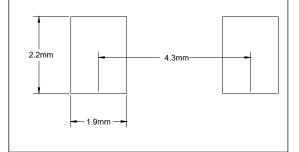
#### Note:

- 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	INCHES		MM		NOTE	
Divi	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	Мах	Unit
TJ	Operating Junction Temperature Range		-55		150	°C
T <sub>stg</sub>	Storage Temperature Range		-55		150	°C
Rth <sub>(J-C)</sub>	Thermal Resistance from Junction to Case	Note 1		15		°C/W
Rth <sub>(J-L)</sub>	Thermal Resistance from Junction to Lead	Note 1		25		°C/W
Rth <sub>(J-A)</sub>	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 <sub>F</sub>	I <sub>F</sub> =5A;T <sub>J</sub> =25°C I <sub>F</sub> =5A;T <sub>J</sub> =125°C			0.50 0.47	V
Reverse Current	I <sub>R</sub>	at Rated V <sub>R</sub> ;T <sub>J</sub> =25°C at Rated V <sub>R</sub> ;T <sub>J</sub> =125°C			0.5 50	mA
Junction Capacitance	CJ	V <sub>R</sub> =4V;f=1MHz;T <sub>J</sub> =25°C		270		pF



# **Curve Characteristics**

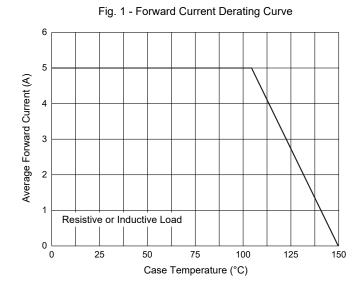
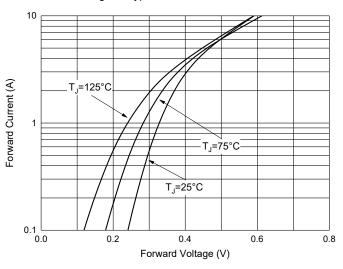
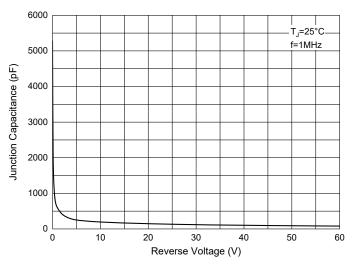


Fig. 3 - Typical Forward Characteristics







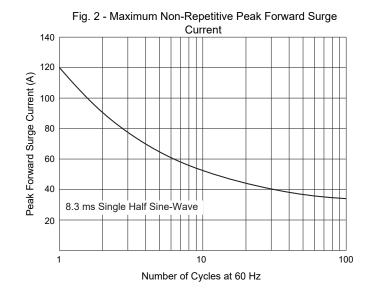
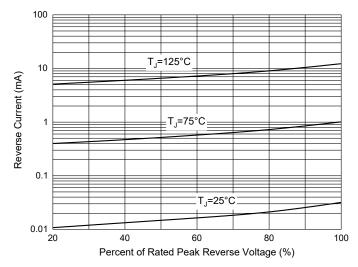


Fig. 4 - Typical Reverse Leakage Characteristics





## **Ordering Information**

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

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