



Surface Mount Schottky Barrier Rectifiers

Features

- Low power loss, high efficiency
- For surface mounted applications
- Low forward voltage drop
- High surge capacity
- Meet UL flammability classification 94V-0

Mechanical Data

- Case: JEDEC uSMC molded plastic
- Polarity: Color band denotes cathode
- Mounting position: Any

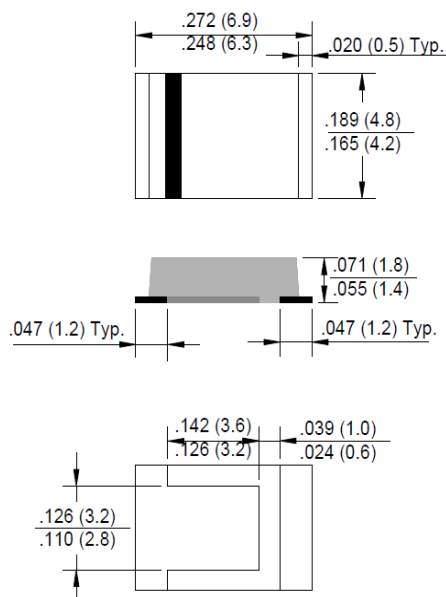
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Applications

- For use in low voltage, high frequency inverters, polarity protection applications

Reverse Voltage - 50Volts
Forward Current - 10.0 Amperes

uSMA

RoHS
COMPLIANT

Package Outline Dimensions in Inches (Millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics	Symbol	10V50	Unit
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	V
Maximum RMS Voltage	V _{RMS}	35	V
Maximum DC Blocking Voltage	V _{DC}	50	V
Maximum Average Forward Rectified Current	I _{AV}	10.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine-Wave, Superimposed on Rated Load (JEDEC Method)	I _{FSM}	320	A
Peak Forward Voltage at 10.0A DC (Note1)	V _F	0.47 TYP	V
Maximum DC Reverse Current @T _J =25°C	I _R	0.5	mA
at Rated DC Blocking Voltage @T _J =100°C		50	
Typical Thermal Resistance Junction to Ambient	R _{θJA}	30	°C/W
Junction Temperature Range	T _J	-55 to+150	°C
Storage Temperature Range	T _{STG}	-65 to+175	°C

Notes: 1. 300uS pulse width, 2%duty cycle.

3. The typical data above is for reference only .



Fig. 1 - Forward Current Derating Curve

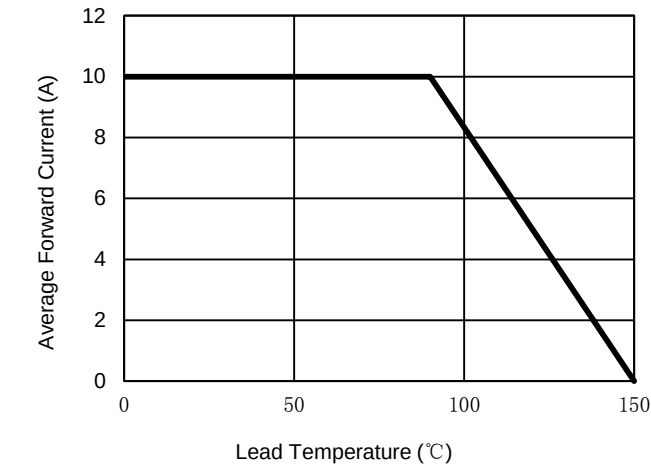


Fig. 2 - Maximum Non-Repetitive Surge Current

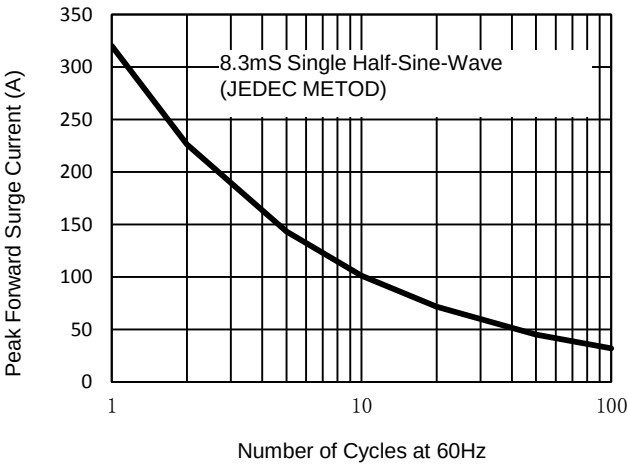


Fig. 3 - Typical Reverse Characteristics

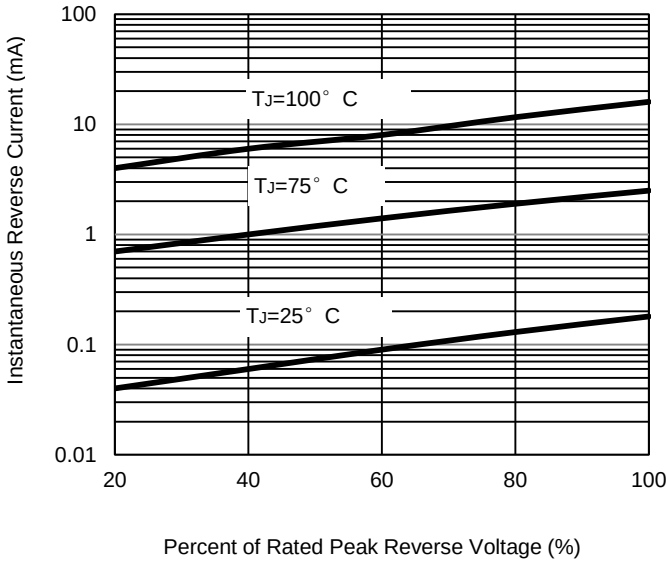
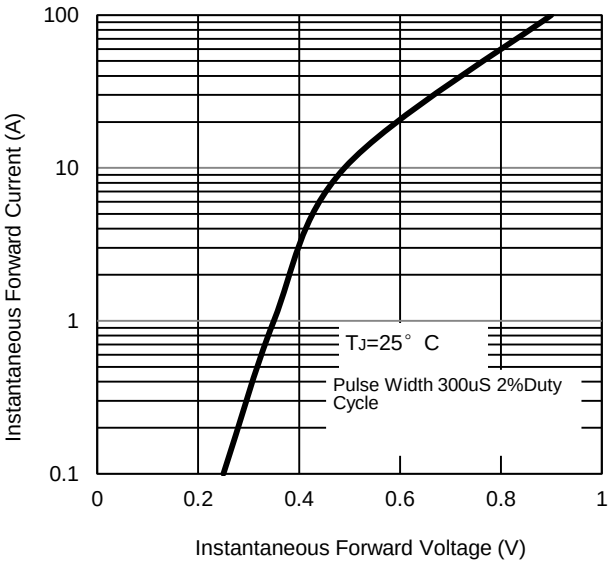


Fig. 4 - Typical Forward Characteristics



The curve above is for reference only.



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