

Surface Mount Superfast Recovery Rectifier

Reverse Voltage - 400 V

Forward Current - 10 A

FEATURES

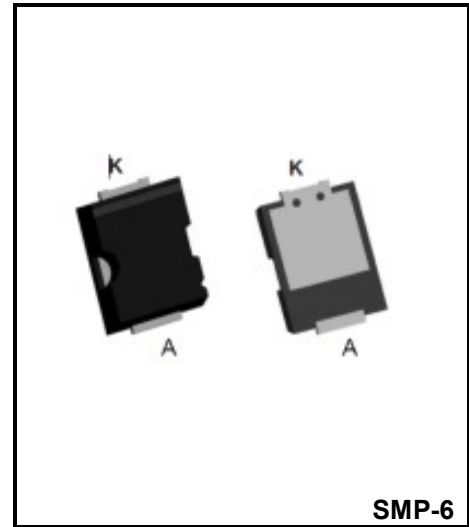
- ◆ Low profile package
- ◆ Ideal for automated placement
- ◆ Glass passivated chip junction
- ◆ High forward surge capability
- ◆ Super fast reverse recovery time
- ◆ Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- ◆ Case: SMP-6
- ◆ High temperature soldering guaranteed: 260°C seconds
- ◆ Terminals: Solderable per MIL-STD-750, Method 2026

Absolute Maximum Ratings and characteristics

Ratings at 25 °C ambient temperature unless otherwise specified.



Parameter	Symbols	SRA4ES	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	400	V
Maximum RMS voltage	V_{RMS}	280	V
Maximum DC Blocking Voltage	V_{DC}	400	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	10	A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave @ $T_j = 25\text{ }^\circ\text{C}$	I_{FSM}	175	A
Maximum Instantaneous Forward Voltage at 5 A	V_F	1.3	V
Maximum DC Reverse Current $T_a = 25\text{ }^\circ\text{C}$ at Rated DC Blocking Voltage $T_a = 125\text{ }^\circ\text{C}$	I_R	10 250	μA
Rating for fusig ($t < 8.3\text{ms}$)	I^2t	127.5	A ² sec
Maximum Reverse Recovery Time ⁽¹⁾	T_{rr}	35	nS
Typical Thermal Resistance ⁽²⁾	$R_{\theta JC}$	7.0	$^\circ\text{C/W}$
Operating and Storage Temperature Range	T_j, T_{stg}	-55 ~ +150	$^\circ\text{C}$

(1) Measured with $I_F=0.5\text{A}, I_R=1\text{A}, I_n=0.25\text{A}$

(2) P.C.B. mounted with 30cmX30cmX1mm copper pad areas.

RATINGS AND CHARACTERISTIC CURVES

Ratings and Characteristic Curves ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Fig.1-Forward Current Derating Curve

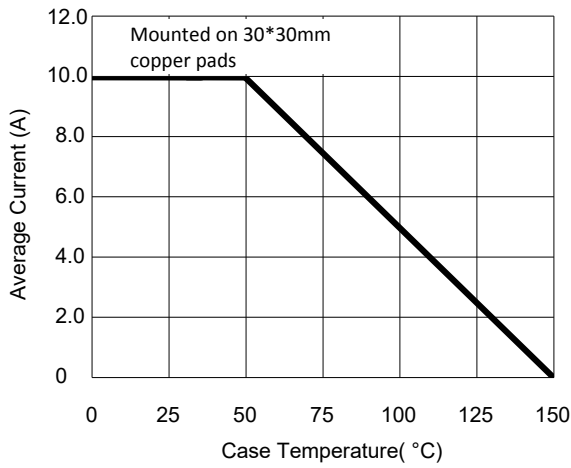


Fig.2- Surge Current Derating Curve

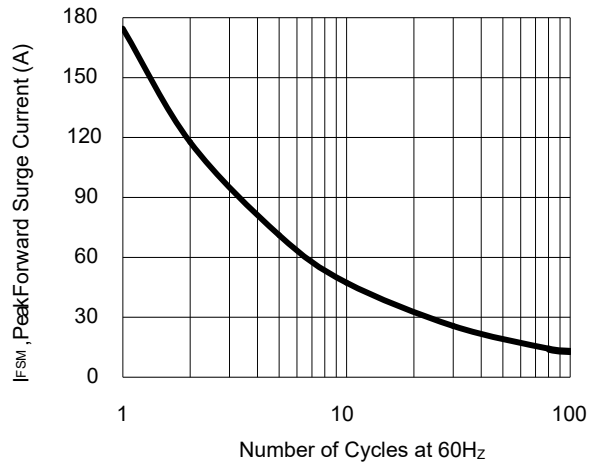


Fig.3- Typical Forward Voltage Characteristic

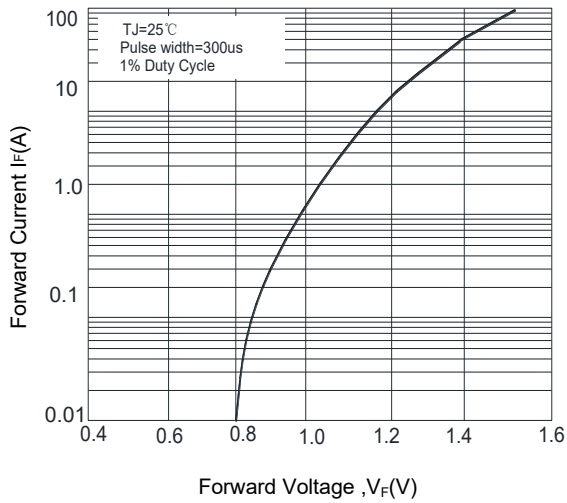
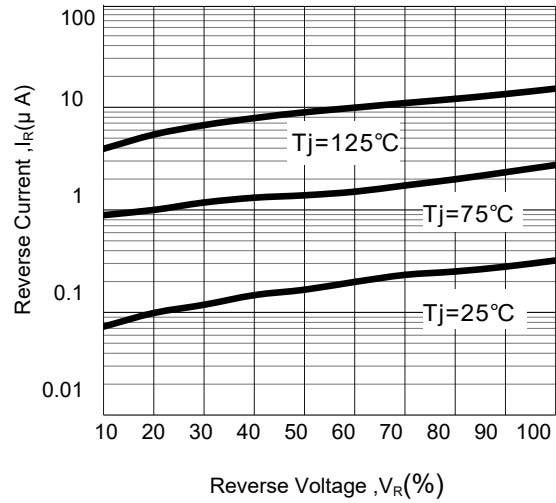


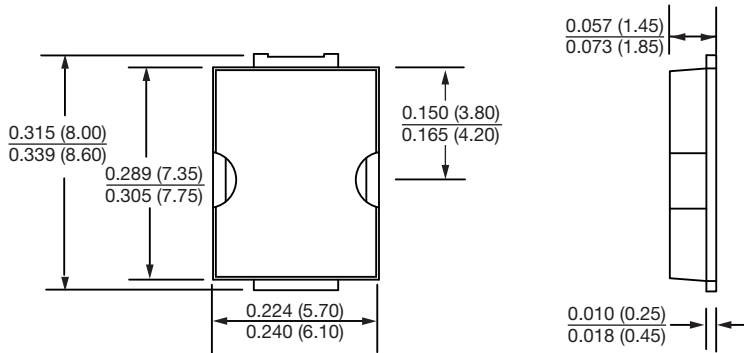
Fig.4- Typical Reverse Characteristic



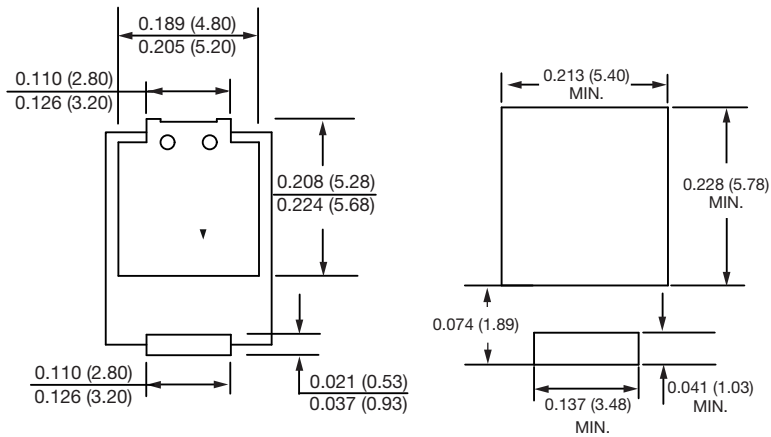
Package Outline SMP6

Plastic surface mounted package; 2 leads

SMP6



Mounting Pad Layout



Dimensions in inches and (millimeters)

单击下面可查看定价，库存，交付和生命周期等信息

[>>YFW\(佑风微\)](#)