

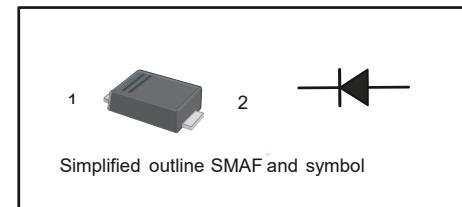


FEATURES

- ◆ For surface mount applications
- ◆ Glass passivated chip junction
- ◆ Low profile package
- ◆ Easy to pick and place
- ◆ Lead free in comply with EU RoHS2011/65/EU directives

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



MECHANICAL DATA

- ◆ Case: SMAF molded plastic body
- ◆ Terminals: Solderable per MIL-STD-750 , Method 2026
- ◆ Weight: Approximated 0.027 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derating by 20 %.

PARAMETER	SYMBOL	M1!D>	M2!D>	M3!D>	M4!D>	M5!D>	M6!D>	M7!D>	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _c =125°C	I _{F(AV)}				1				A
Peak Forward Surge Current (Note1)	I _{FSM}				30				A
Maximum Forward Voltage at 1.0 A	V _F				1.1				V
Maximum DC Reverse Current at Rated DC Blocking Voltage at T _A =25°C T _A =125°C	I _R				5 50				uA
Typical Junction Capacitance (Note2)	C _J				15				pF
Typical Thermal Resistance (Note3)	R _{θJA}				80				°C/W
Operating and Storage Temperature Range	T _J , T _{STG}				-55 to +150				°C

Notes: 1. Measured at 8.3 ms single half sine wave superimposed on rated load (JEDEC Method).

2. Measured at 1MHz and applied reverse voltage of 4 V D.C.

3. P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



M1-PJ thru M7-PJ

Surface Mount General Purpose Silicon Rectifiers

RATINGS AND CHARACTERISTIC CURVES

Fig.1 Forward Current Derating Curve

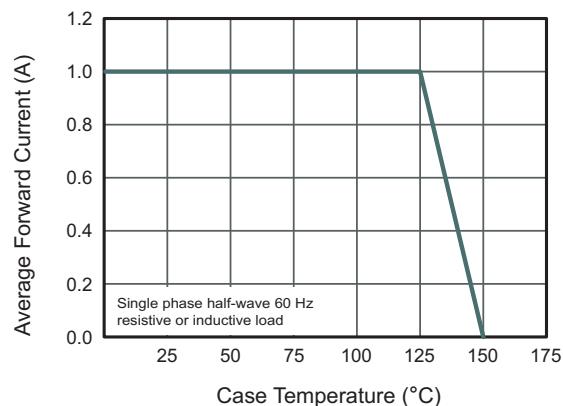


Fig.2 Typical Instantaneous Reverse Characteristics

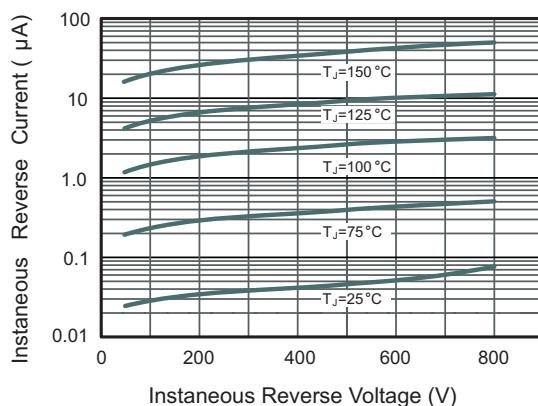


Fig.3 Typical Forward Characteristic

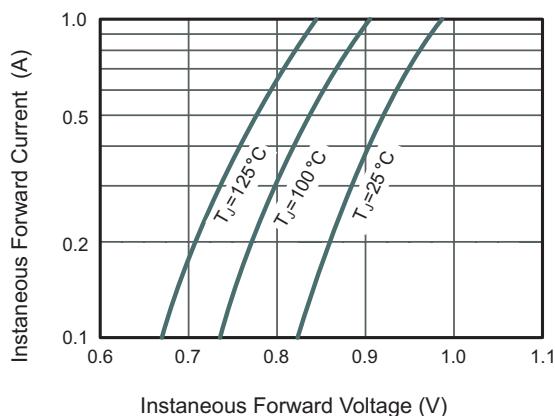


Fig.4 Typical Junction Capacitance

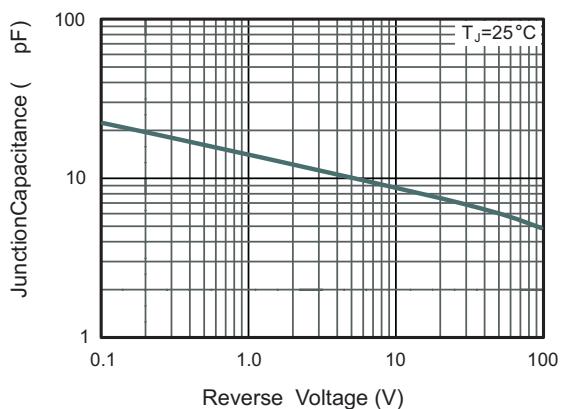
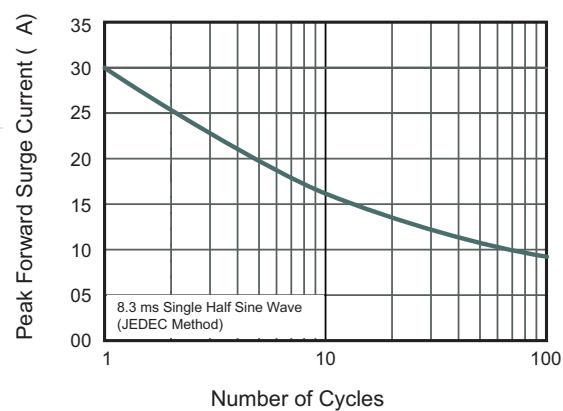


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



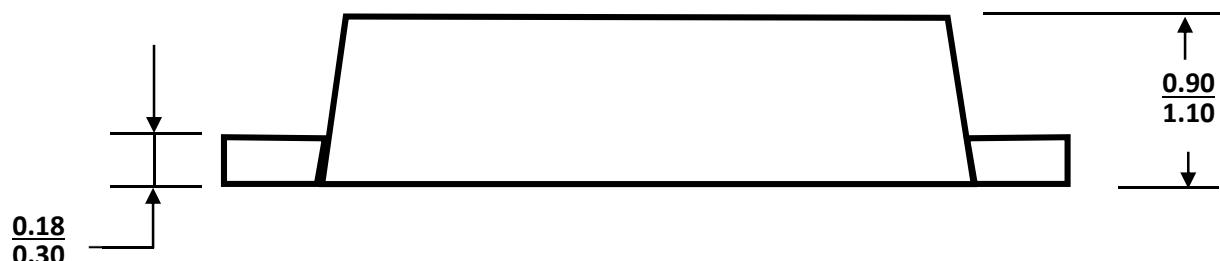
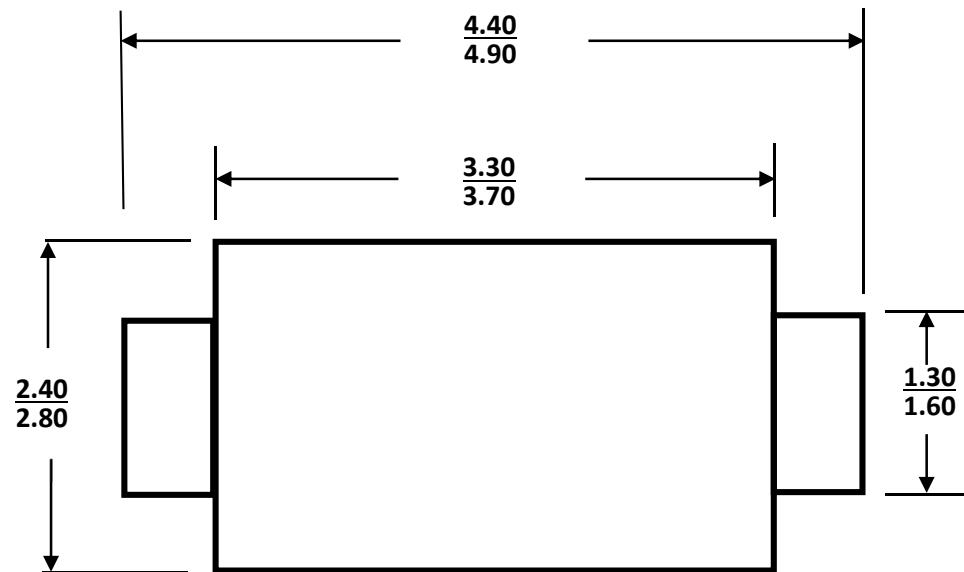


M1-PJ thru M7-PJ

Surface Mount General Purpose Silicon Rectifiers

PACKAGE OUTLINE

SMAF



Dimensions in milimeters

ORDERING INFORMATION

Device	Package	Shipping
M1-PJ thru M7-PJ	SMAF	3,000/Tape & Reel (7 inches)
		10,000/ Tape & Reel (13 inches)