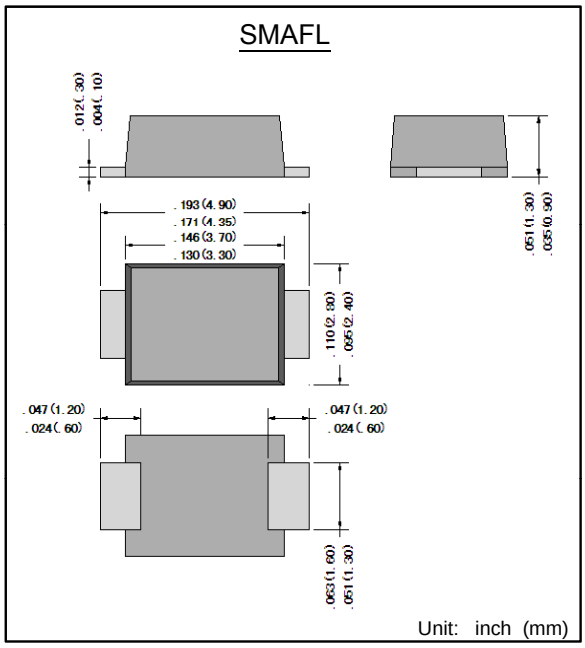
S3MF-SMAF-60M

Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Ampere

SURFACE MOUNT GENERAL RECTIFIER

Features

- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Idea for printed circuit board
- Glass passivated junction
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed 250℃/10 seconds at terminals



Mechanical Data

Case :JEDEC SMAF molded plastic body
Terminals : Solderable per MIL-STD-750,Method 2026
Polarity : Polarity symbol marking on body
Mounting Position: Any
Weight : 0.00095ounce, 0.027grams

Maximum Ratings And Electrical Characteristics

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter / Marking Code	SYMBOLS	S3MF-SMAF-60M	UNITS
Maximum repetitive peak reverse voltage	V_{RMM}	1000	V
Maximum RMS voltage	V_{RMS}	700	V
Maximum DC blocking voltage	V_{DC}	1000	V
Maximum average forward rectified current at TL=115℃	$I_{(AV)}$	3.0	A
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method)	I_{FSM}	80	A
Maximum instantaneous forward voltage at 3.0A	V_F	1.10	V
Maximum DC reverse current T_A=25℃ at rated DC blocking voltage T_A=125℃	I_R	5.0 125	μA
Typical junction capacitance (NOTE 1)	C_J	32.0	pF
Typical thermal resistance (NOTE 2)	$R_{\theta JA}$ $R_{\theta JC}$	50.0 16.0	℃/W
Operating junction and storage temperature range	T_J,T_{STG}	-55 to +150	℃

Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2.P.C.B. mounted with 2.0"x2.0"(5.0x5.0cm) copper pad areas

S3MF-SMAF-60M

Reverse Voltage - 50 to 1000 Volts Forward Current - 3.0 Ampere

Typical Characterisitics

Fig.1 Forward Current Derating Curve

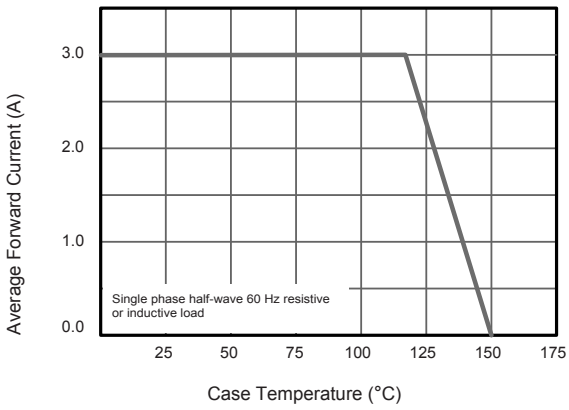


Fig.2 Typical Instaneous Reverse Characteristics

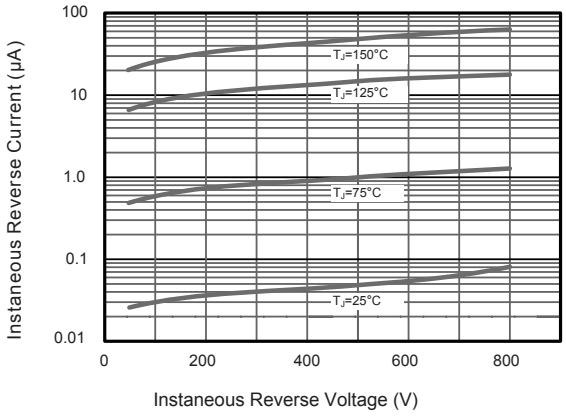


Fig.3 Typical Forward Characteristic

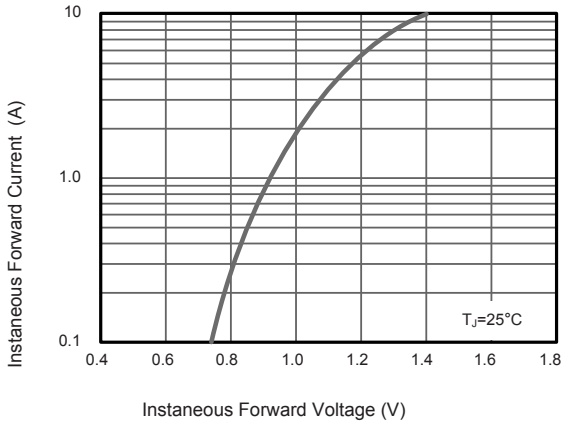


Fig.4 Typical Junction Capacitance

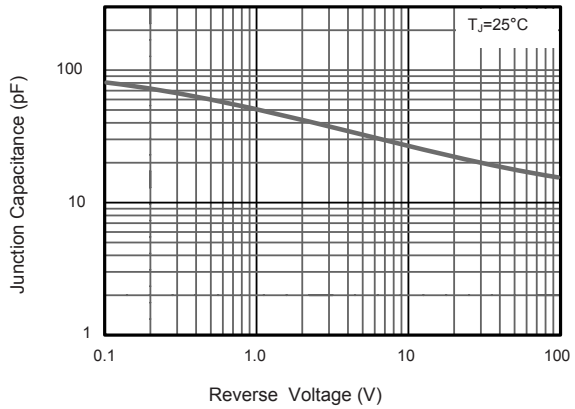
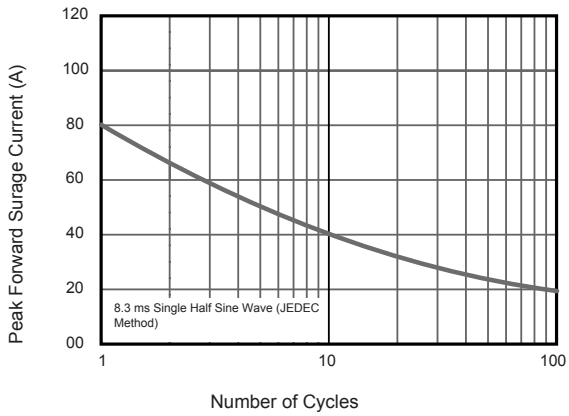


Fig.6 Maximum Non-Repetitive Peak Forward Surage Current



The curve above is for reference only.