

1 AMP. SILICON BRIDGE RECTIFIERS

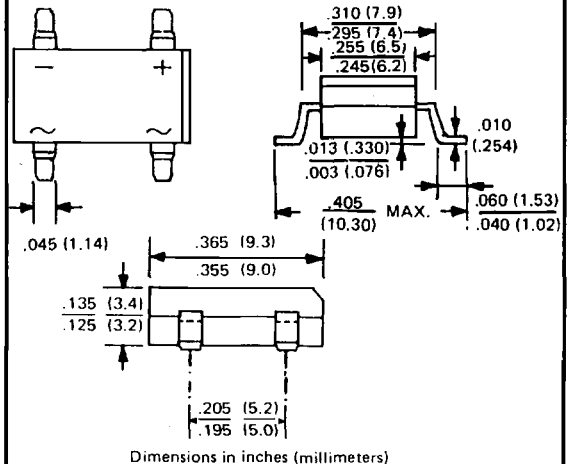


VOLTAGE RANGE
50 to 1000 Volts
CURRENT
1.0 Ampere

FEATURES

- Rating to 1000V PRV
- Surge overload rating to 30 Amperes peak.
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- UL Recognized file # E95060
- Lead solderable per MIL-STD-202 method 208
- Leads: silver plated copper
- Plastic material has UL flammability classification 94V-0
- Polarity symbols molded on body
- Weight: 0.02 ounce 0.45 grams

SMDF



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

		SMDF 101	SMDF 102	SMDF 103	SMDF 104	SMDF 105	SMDF 106	SMDF 107	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	60	100	200	400	600	800	1000	V
Maximum Average Forward Output Current @ $T_A = 40^\circ C$	$I_{(AV)}$	1.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	30							A
Maximum DC Forward Voltage drop per element at 1.0A DC	V_F	1.1							V
Maximum DC Reverse Current at rated @ $T_A = 25^\circ C$ DC Blocking Voltage per element @ $T_A = 100^\circ C$	I_R	5 0.5							μA mA
$I^2 t$ Rating for fusing ($t < 8.3ms$)	$I^2 t$	3.7							$A^2 S$
Operating Temperature Range	T_J	-55 to + 125							$^\circ C$
Storage Temperature Range	T_{STG}	-55 to + 150							$^\circ C$

NOTE: Please specify if UL recognition is necessary.

FIG. 1 - PEAK FORWARD SURGE CURRENT

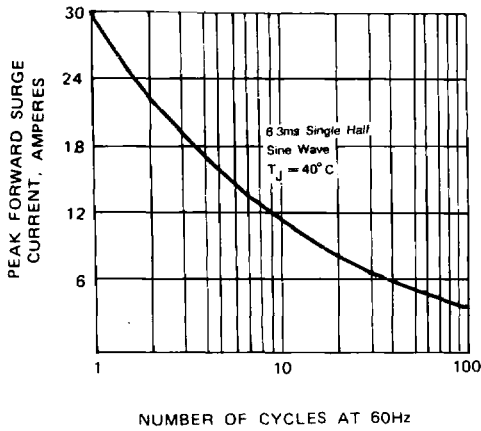


FIG. 2 - FORWARD DERATING CURVE

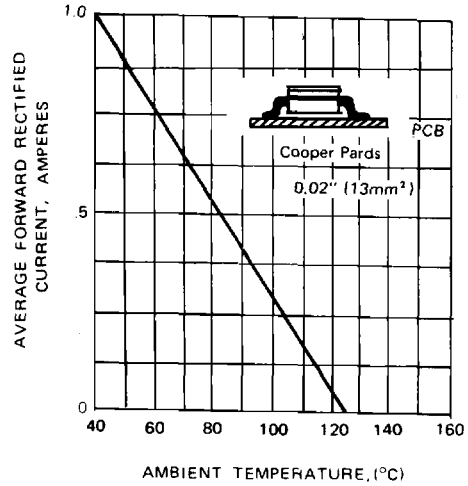


FIG. 3 - TYPICAL FORWARD CHARACTERISTICS

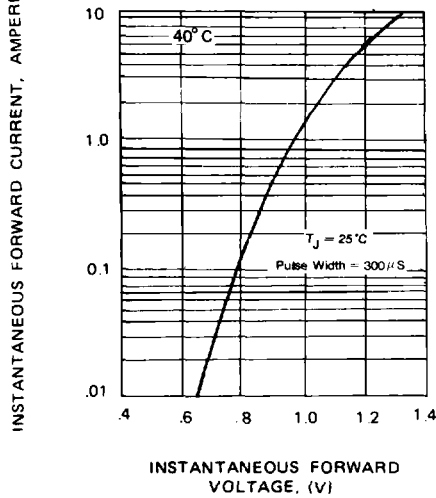


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

