

Kingtronics®

SB1240

FEATURE

- FOR SURFACE MOUNTED APPLICATIONS
- LOW PROFILE PACKAGE
- BUILT-IN STRAIN RELIEF
- EASY PICK AND PLACE
- PLASTIC MATERIAL USED CARRIES UNDERWRITERS
- LABORATORY CLASSIFICATION 94 V-0
- EXTREMELY LOW VF
- MAJORITY CARRIER CONDUCTION
- HIGH TEMPERATURE SOLDERING : 260°C//10 SECONDS

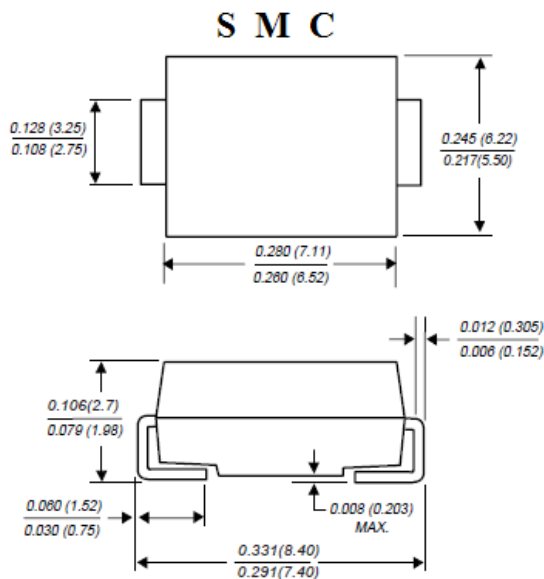
AT TERMINALS

MECHANICAL DATA

- CASE: SMC
- TERMINALS: SOLDER PLATED
- POLARITY: INDICATED BY CATHODE BAND
- WEIGHT: 0.22 grams

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

Reverse Voltage - 40 Volts Forward Current - 12.0 Amperes



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

Resistive or inductive load

	Symbol	SB1240	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS Voltage	V_{RMS}	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Current .375 (9.5mm) lead length at $T_L=75$ C	$I_{(AV)}$	12.0	Amps
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	300	Amps
Maximum Instantaneous Forward Voltage at 12.0A	V_F	0.55	Volts
Maximum DC Reverse Current $T_A=25$ C	I_R	1.0	Am
at Rated DC Blocking Voltage $T_A=100$ C		20	
Maximum Thermal Resistance (NOTE 2)	R_{JA}	75	°C/W
	R_{JL}	20	
Operating Junction Temperature Range	T_J	-50 to +125	°C
Storage and Operating Temperature Range	T_{STG}	-55 to +150	°C

NOTES:1. Pulse test with PW=300 sec, 1% duty cycle 2. Mounted on P.C.Board with 8mm² (0.13mm thick) copper pad areas

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Fig.1 - FORWARD CURRENT DERATING CURVE

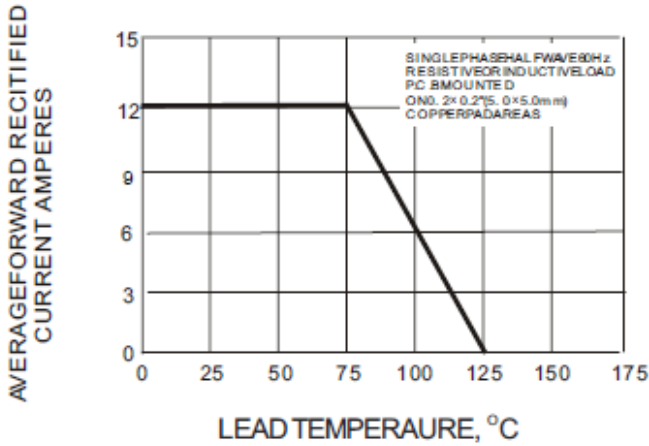


Fig.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

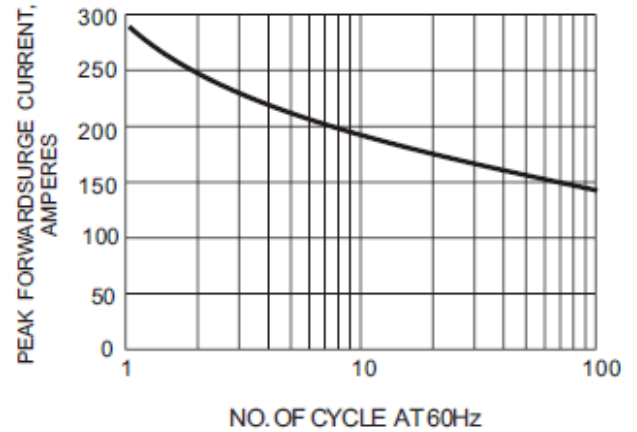


FIG.3-TYPICAL FORWARD CHARACTERISTICS

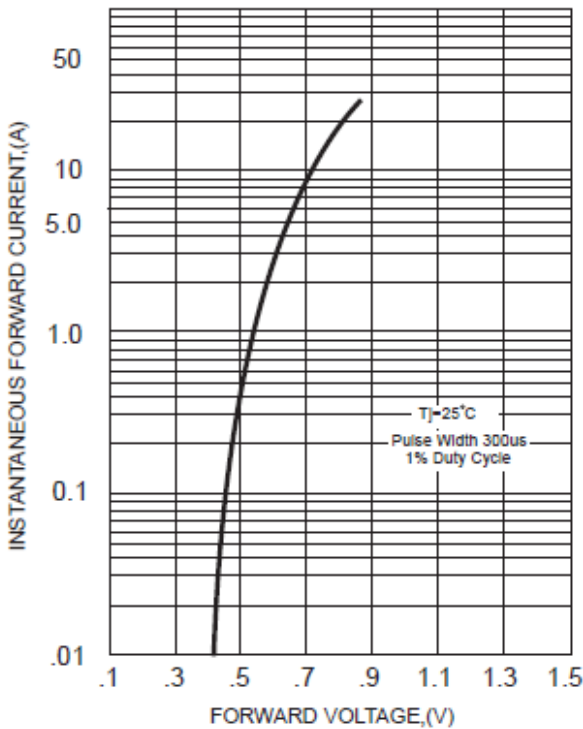
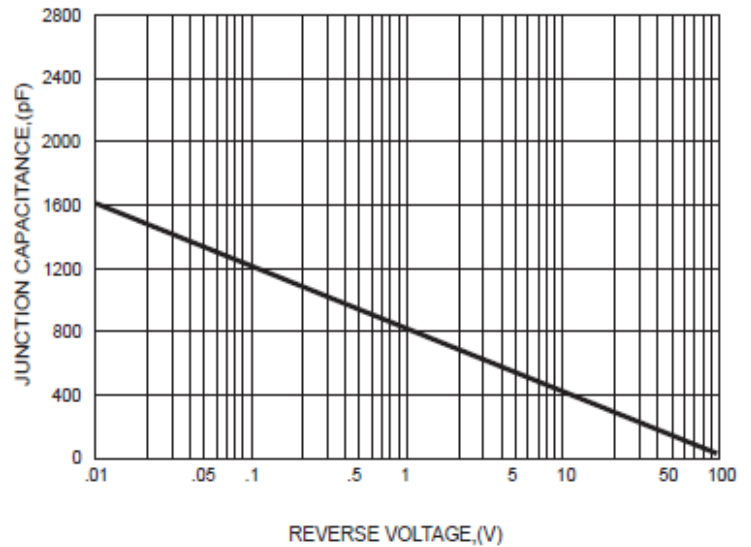


FIG.4-TYPICAL JUNCTION CAPACITANCE



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