Website: www.kingtronics.com

Email: info@kingtronics.com

Tel: (852) 8106 7033

Fax: (852) 8106 7099

SM4001 THRU SM4007

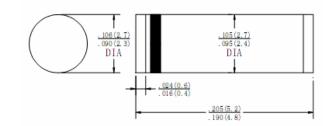
FEATURES

- Plastic package has carries underwriters
 Laboratory flammability classification 94V-0
- ◆ Surge overload rating to 30 Ampers peak
- ◆ Ideal for printed circuit board.
- Reliable low cost construction utilizing molded plastic technique results in in-expensive product.
- ◆ High temperature soldering guaranteed:
 260°C / 10 seconds at terminals

Mechanical Data

- ◆ Solderability per MIL-STD-750, method 208 at terminals.
- Mounting position: Any
- ♦ Weight: 0.12 gram





Dimensions in in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave,60Hz,resistiver or inductive load.

For capactitive load, derate current by 20%

Type Number	SYMBOL	SM4001	SM4002	SM4003	SM4004	SM4005	SM4006	SM4007	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	VDC	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	1	1.0							А
@TA = 75°C	lf(AV)								
Peak Forward Surge Current 8.3ms single	1	22							А
half sine-wave superimposed on rated load (JEDEC method)	IFSM		30						
Maximum Instantaneous Forward Voltage @1.0A	VF	1.1							V
Maximum DC Reverse Current @ TA=25℃	1-	5.0							μА
at rated DC blocking voltage @ TA=125℃	lr	100							
Typical Thermal Resistance (Note)	RөJA	50							°C/W
Operating Temperature Range	TJ	-65 to + 150							$^{\circ}$
Storage Temperature Range	Тѕтс	-65 to + 150							$^{\circ}$ C

NOTE: Thermal Resistance from Junction to case. Mount on 0.2" x 0.2" Cu-pad on P.C.B.

SM4001 THRU SM4007

RATING AND CHARACTERISTIC CURVES SM4001 THRU SM4007

FIG.1- MAXIMUM NONO-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

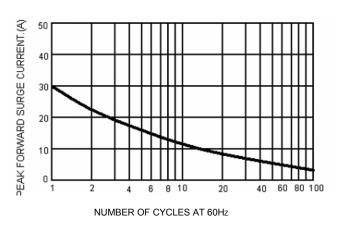
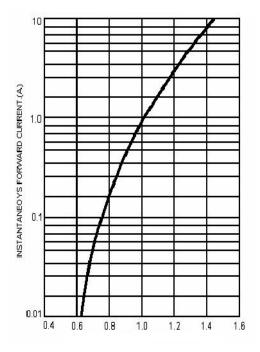
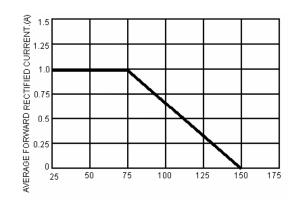


FIG. 3-TYPICAL INSTANTANEOUS FORWARD
CHARACTERISTICS PER BRIDGE ELEMENT



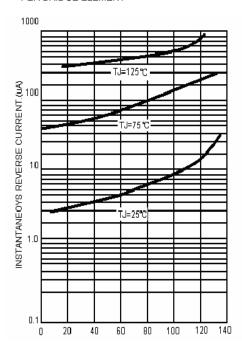
 ${\tt INSTANTANEOUS}\ {\tt FORWARD}\ {\tt VOLTAGE}.\ ({\tt V})$

FIG. 2-MAXIMUM FORWARD CURRENT DERATING CURVE



AMBIENT TEMPERATURE. (℃)

FIG. 4-TYPICAL REVERSE CHARACTERISTICS
PER BRIDGE ELEMENT



PERCENT OF RATED PEAK REVERSE VOLTAGE.(%)

Note: Specifications are subject to change without notice.