

Kingtronics®

H3R06S

FEATURES

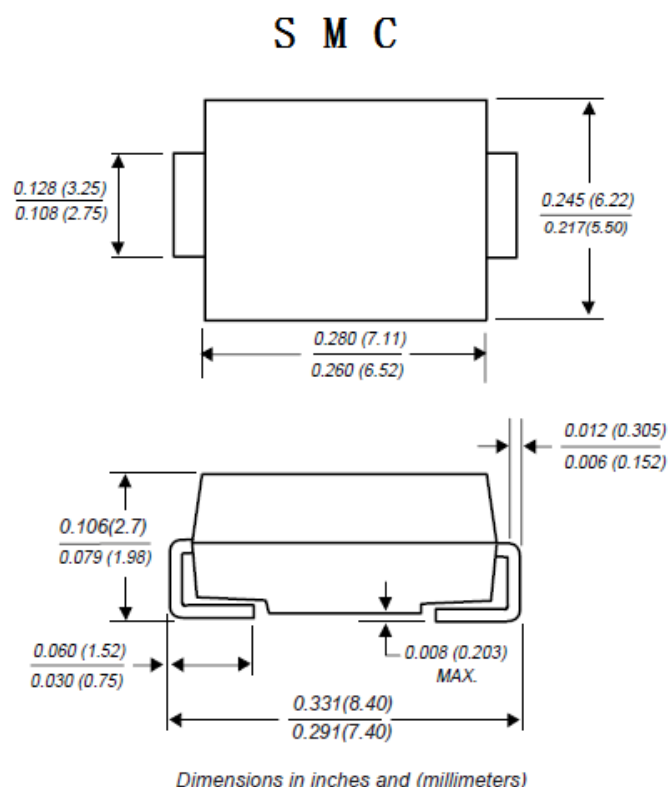
Glass passivated junction chip
 For surface mounted applications
 Low profile package
 Built-in strain relief
 Ideal for automated placement
 Easy pick and place
 Superfast recovery time for high efficiency
 Glass passivated chip junction
 High temperature soldering:
 260°C/10 seconds at terminals
 Plastic material used carries Underwriters
 Laboratory Classification 94V-O

Mechanical Data

Cases: Molded plastic
 Terminals: Solder plated
 Polarity: Indicated by cathode band
 Packaging: 16mm tape per EIA STD RS-481
 Weight: 0.22 gram

GLASS PASSIVATED SURFACE MOUNT SUPER FAST RECTIFIER

Reverse Voltage - 600 Volts Forward Current - 3.0 Amperes



Kingtronics®**H3R06S****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%.

Type Number	Symbol	H3R06 S	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	600	V
Maximum RMS Voltage	VRMS	420	V
Maximum DC Blocking Voltage	VDC	600	V
Maximum Average Forward Rectified Current . See Fig. 1	I(AV)	3.0	A
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) @ T _L = 100°C	IFSM	100	A
Maximum Instantaneous Forward Voltage@ 3.0A	V _F	1.7	V
Maximum DC Reverse Current @ TA =25°C	I _R	10	uA
at Rated DC Blocking Voltage @ TA=100°C		250	uA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	35	nS
Typical Junction Capacitance (Note 2)	C _j	30	pF
Typical Thermal Resistance (Note 3)	R _{θJA}	47	°C/W
	R _{θJL}	12	
Operating Temperature Range	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-55 to +150	°C

NOTES:

1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A
2. Measured at 1 MHz and Applied VR=4.0 Volts
3. Units Mounted on P.C.B. with 0.6 x 0.6"(16 x 16mm) Copper Pad Areas

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AVERAGE FORWARD RECTIFIED CURRENT,
AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE

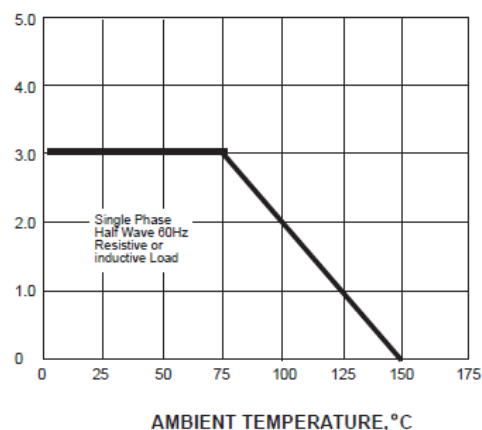


FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

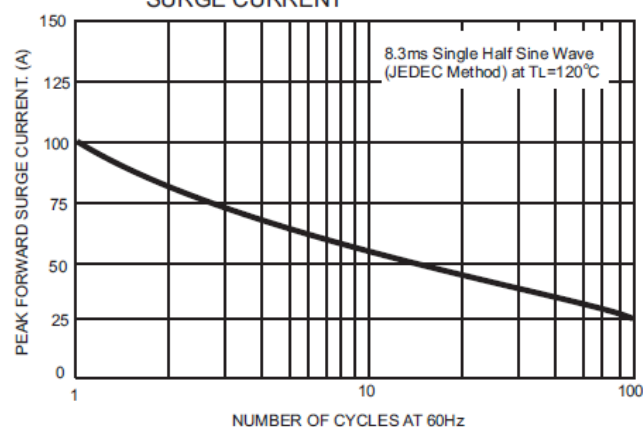


FIG.3- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

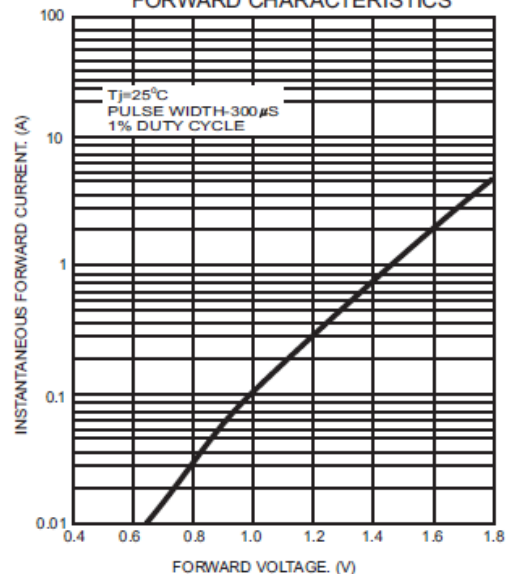


FIG.4- TYPICAL REVERSE CHARACTERISTICS

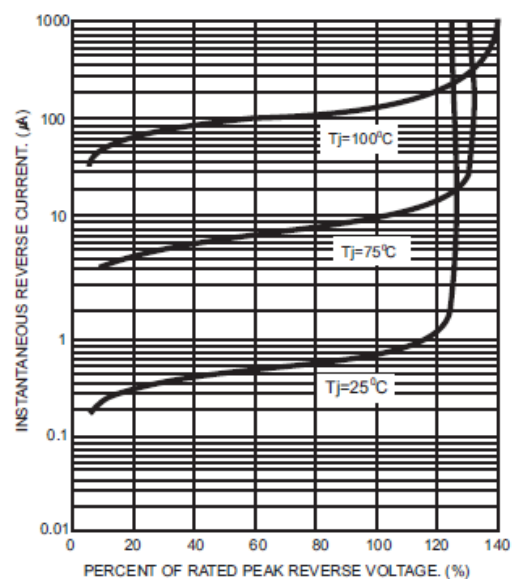
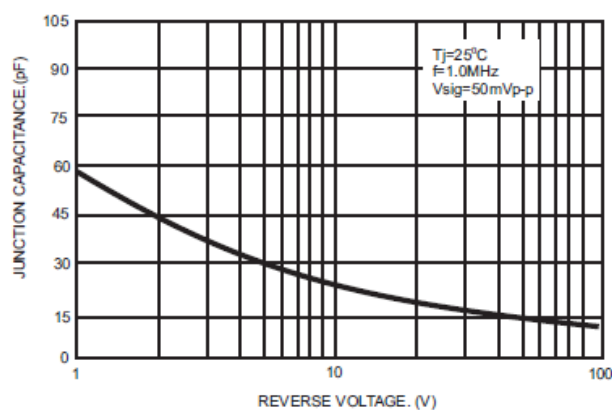


FIG.5- TYPICAL JUNCTION CAPACITANCE



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