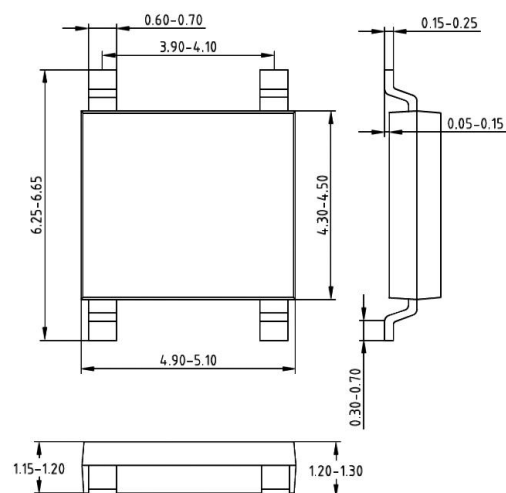


Kingtronics®**ABS1 THRU
ABS10****SURFACE MOUNT FAST SWITCHING RECTIFIER****REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 1.0 Ampere****FEATURES**

Glass passivated chip junction
 Ideal for surface mounted applications
 Low leakage
 High forward surge current capability
 High temperature soldering guaranteed:
 260°C/10 seconds at terminals

MECHANICAL DATA

Case: Molded plastic body
 Epoxy: UL94V-0 rate flame retardant
 Polarity: Molded on body
 Lead: Plated terminals solderable per MIL-STD-202E
 method 208C
 Weight: 0.003 ounce, 0.1 gram

ABS**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

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

PARAMETER	SYMBOL	ABS1	ABS2	ABS3	ABS4	ABS6	ABS8	ABS10	UNIT
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Output Current, 0.06" (1.5mm) lead length at $T_L=90^\circ\text{C}$ (Note 2)	$I_{(AV)}$	1.0							A
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30							A
Rating for Fusing ($t < 8.3\text{ms}$)	I^2t	10							A^2s
Maximum Instantaneous Forward Voltage drop Per Bridge element 1.0A	V_F	1.1							V
Maximum DC Reverse Current at $T_A=25^\circ\text{C}$ at Rated DC Blocking voltage $T_A=125^\circ\text{C}$	I_R	5							μA
		0.5							mA
Typical Junction Capacitance (Note 1)	C_J	25							pF
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	40							$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							$^\circ\text{C}$

1- Measured at 1.0MHz and applied reverse voltage of 4.0 Volts. 2- Unit mounted on P.C.B. with 5.72mm x 7.22mm copper pads.

Kingtronics® International Company

Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

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ABS1 THRU ABS10

RATINGS AND CHARACTERISTIC CURVES

FIG.1-FORWARD CURRENT DERATING CURVE

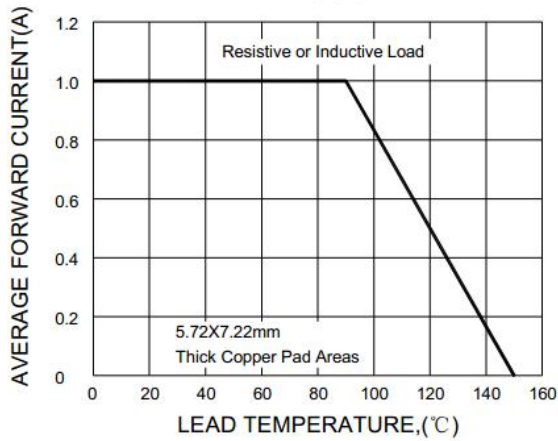


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

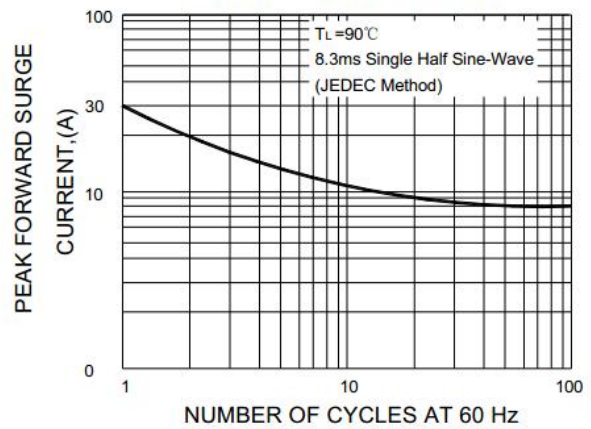


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

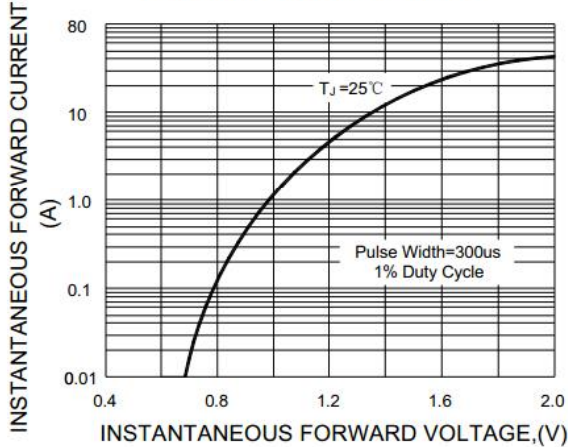


FIG.4-TYPICAL REVERSE CHARACTERISTICS

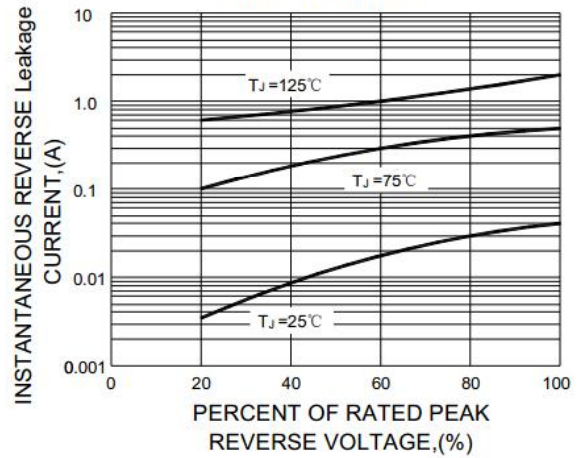


FIG.5-TYPICAL JUNCTION CAPACITANCE

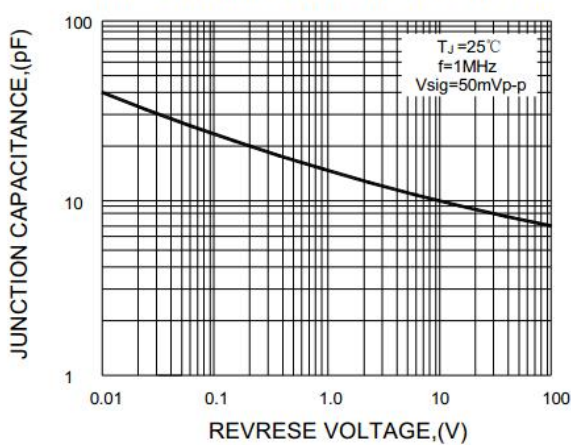
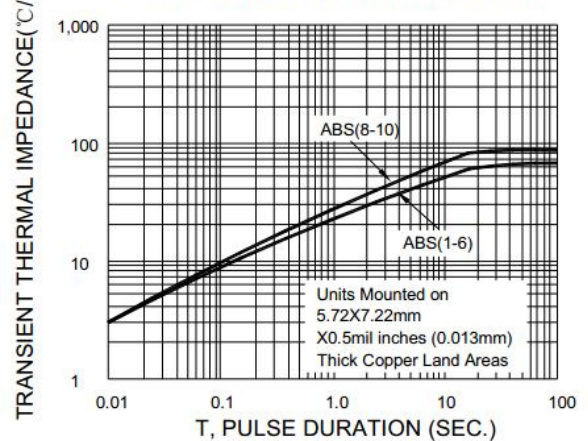


FIG.6-TRANSIENT THERMAL IMPEDANCE



Note: Specifications are subject to change without notice.

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