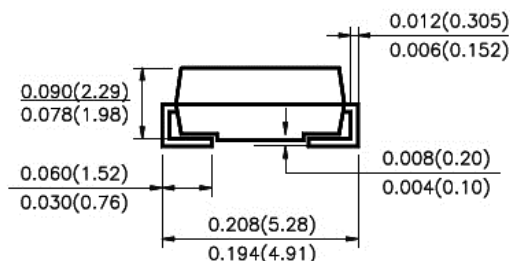
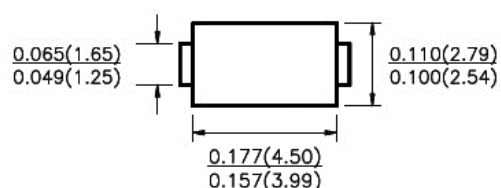


Kingtronics®**RS2A THRU RS2M****SURFACE MOUNT FAST SWITCHING RECTIFIER****REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 2.0 Ampere****FEATURES**

Plastic package has underwrites laboratory flammability
 Classification 94V-0
 Low profile surface mount package
 Built-in strain relief
 Fast switching for high efficiency
 Glass passivated chip junction
 High temperature soldering
 250°C/10 second at terminals

MECHANICAL DATA

Case: JEDED DO-214AC molded plastic over glass passivated chip
 Terminals: Solder plated, solderable per MIL-STD-750, method 2026
 Polarity: Color band denotes cathode end
 Weight: 0.002ounce, 0.064 gram

DO-214AC (SMA)**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified ,

MAXIMUM RATINGS & THERMAL CHARACTERISTICS

Dimensions in inches and (millimeters)

	SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at $T_L = 90^\circ\text{C}$	$I_{F(AV)}$	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) $T_L = 90^\circ\text{C}$	I_{FSM}	50							Amps
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$	105							°C/W
	$R_{\theta JL}$	32							
Operating junction and Storage Temperature Range	T_J, T_{STG}	-55 to +150							°C

ELECTRICAL CHARACTERISTICS

	SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNIT	
Maximum Instantaneous Forward Voltage at 1.5A	V_F	1.30							Volts	
Maximum DC Reverse Current at rated DC Blocking Voltage	I_R	$T_A = 25^\circ\text{C}$							uA	
		$T_A = 125^\circ\text{C}$								
Typical Reverse Recovery Time at $I_F = 0.5\text{A}$, $I_R = 1.0\text{A}$, $I_{RR} = 0.25\text{A}$	t_{rr}	150				250	500		ns	
Typical junction capacitance at 4.0V, 1MHz	C_J	30							7.0	pF

1- Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $0.2 \times 0.2''$ ($5.0 \times 5.0\text{mm}$) copper pad areas.

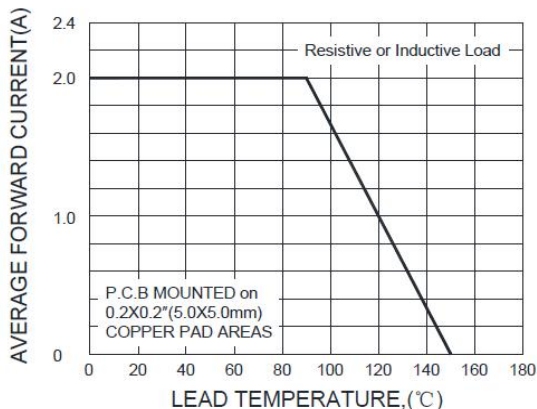
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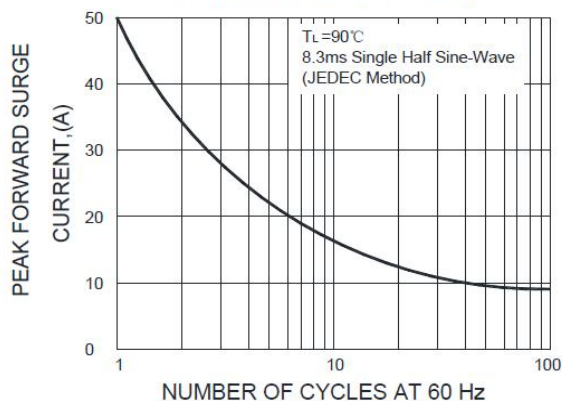
RS2A THRU RS2M

RATINGS AND CHARACTERISTIC CURVES

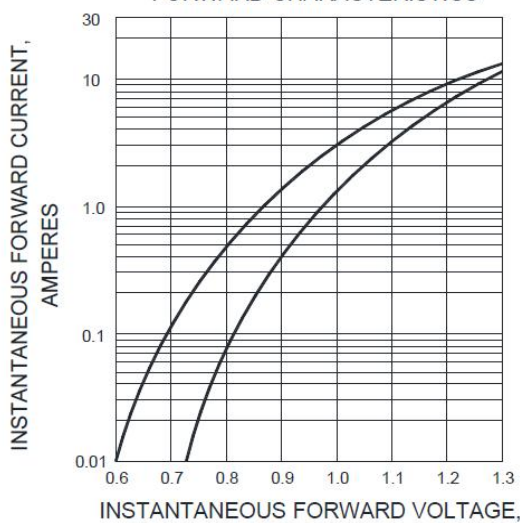
F1G.1-FORWARD CURRENT DERATING CURVE



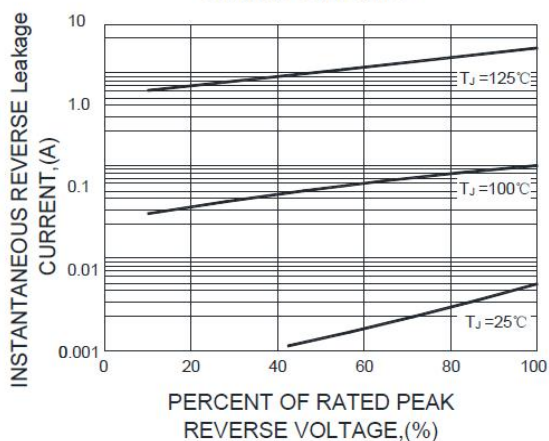
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



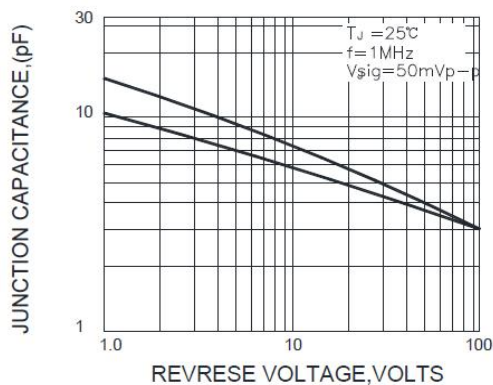
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



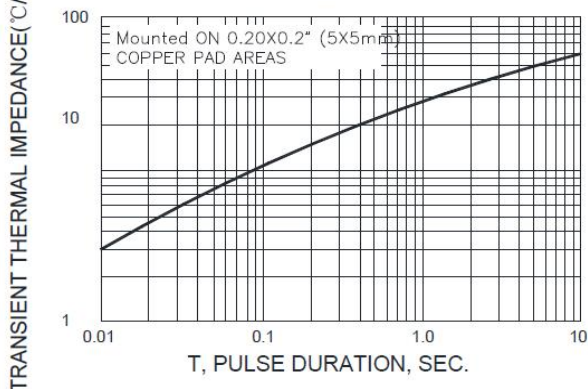
F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE



F1G.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



Note: Specifications are subject to change without notice.

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