## 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

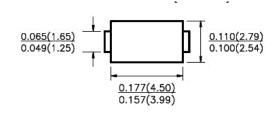
#### **MECHANICAL DATA**

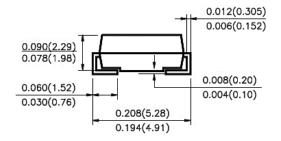
Case: JEDED DO-214AC molded plastic over glass passivated chip Terminals: Solder plated, solderable per MIL-STD-750, method 2026

Polarity: Color band denotes cathode end

Weight: 0.002ounce, 0.064 gram

#### DO-214AC (SMA)





#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified , MAXIMUM RATINGS &THERMAL CHARACTERISTICS

#### Dimensions in inches and (millimeters)

WAXIMOW RATINGS &TILKWAL CHARACTERISTICS									
	SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current at T <sub>L</sub> = 90 °C	I <sub>F(AV)</sub>	2.0						Amps	
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) T <sub>L</sub> = 90°C	IFSM	50							Amps
Typical Thermal Resistance (Note 1)	RөJA	105							°C/W
	RøJL	32							
Operating junction and Storage Temperature Range	T <sub>J</sub> ,TsTG	-55 to +150						$^{\circ}$	
ELECTRICAL CHARACTERICTICS									

#### **ELECTRICAL CHARACTERISTICS**

		SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNIT
Maximum Instantaneous Forward Voltage at 1.5A		VF	1.30							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	T <sub>A</sub> = 25°C	<b>I</b> R	5.0							uA
	T <sub>A</sub> =125℃		50							
Typical Reverse Recovery Time at I <sub>F</sub> = 0.5A, I <sub>R</sub> = 1.0A, I <sub>RR</sub> = 0.25A		t <sub>rr</sub>		150 250		250	500		ns	
Typical junction capacitance at 4.0V, 1MHz		Сл	30 7.0					7.0	pF	

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

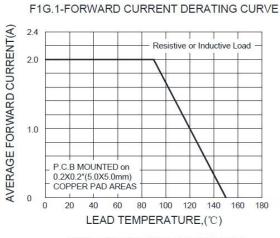
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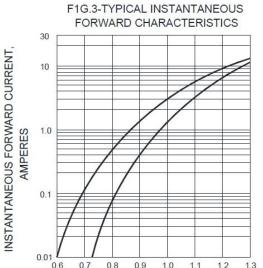
Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

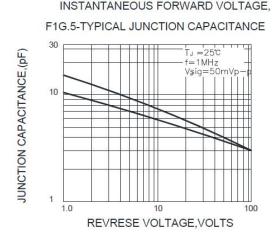
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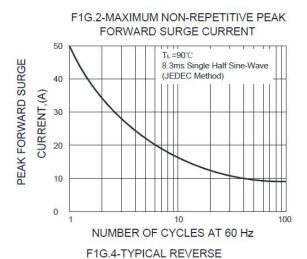
### RS2A THRU RS2M

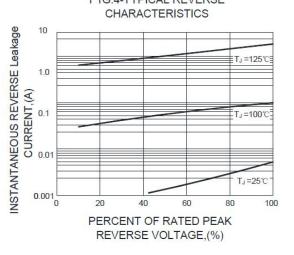
#### RATINGS AND CHARACTERISTIC CURVES

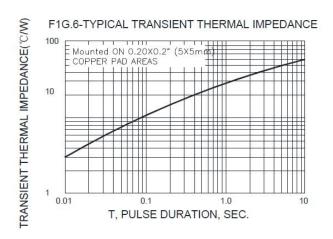












Note: Specifications are subject to change without notice.

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