Kingtronics®

RS2A THRU RS2N

SURFACE MOUNT FAST SWITCHING RECTIFIER REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 2.0 Ampere

FEATURES

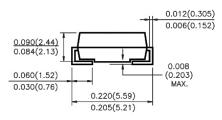
The plastic package carries Underwriters Laboratory Flammability Classification 94V-0 Low profile surface mount package Built-in strain relief Fast switching for high efficiency Glass passivated chip junction High temperature soldering 250°C/10 second at terminals

MECHANICAL DATA

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

$\underbrace{\begin{array}{c} 0.086(2.20) \\ 0.077(1.95) \end{array}}_{\begin{array}{c} 0.180(4.57) \\ \hline 0.160(4.06) \end{array}} \underbrace{\begin{array}{c} 0.155(3.94) \\ \hline 0.130(3.30) \end{array}}_{\begin{array}{c} 0.160(4.06) \end{array}$

DO-214AA (SMB)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified , MAXIMUM RATINGS &THERMAL CHARACTERISTICS

Dimensions in inches and (millimeters)

MAXIMOM KATINGO GITIEKMAE GITAKAGTEKIGTIGG									
	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 $T_L=90^{\circ}C$	I _(AV)	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) T _L = 90°C	IFSM	50							Amps
Typical Thermal Resistance (Note 1)	RөJA	55							°CM
	Rejl	18							
Operating junction and Storage Temperature Range	T _J ,TsTG	-55 to +150							$^{\circ}$
ELECTRICAL CHARACTERISTICS									

ELECTRICAL CHARACTERISTICS

		SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNIT
Maximum Instantaneous Forward Voltage at 1.5A		VF	1.30							
Maximum DC Reverse Current at rated DC Blocking Voltage	T _A = 25°C		5.0							uA
	T _A =125℃	l R	50							
Typical Reverse Recovery Time at I _F = 0.5A, I _R = 1.0A, I _{RR} = 0.25A		t _{rr}	150			250 500		ns		
Typical junction capacitance at 4.0V, 1MHz		Сл	20 17						PF	

¹⁻ Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $0.27 \times 0.27''$ (7.0 \times 7.0mm) copper pad areas.

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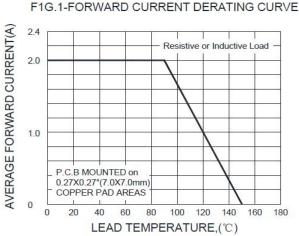
RS2A THRU RS2

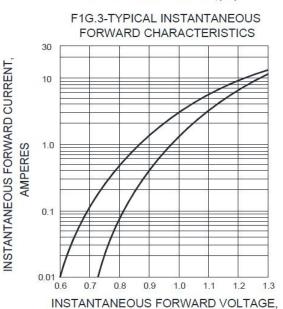
F1G.2-MAXIMUM NON-REPETITIVE PEAK

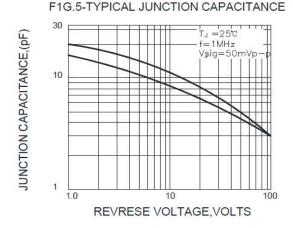
RATINGS AND CHARACTERISTIC CURVES

10

0



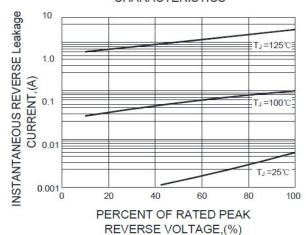




FORWARD SURGE CURRENT 50 PEAK FORWARD SURGE 8.3ms Single Half Sine-Wave (JEDEC Method) 40 CURRENT,(A) 30

> NUMBER OF CYCLES AT 60 Hz F1G.4-TYPICAL REVERSE CHARACTERISTICS

100



Note: Specifications are subject to change without notice.

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