### **RS3A THUR RS3M**



#### **RS3A THUR RS3M Fast Surface Mount Rectifiers General description** Fast Surface Mount Rectifiers Reverse Voltage : 50 to 1000V SMC/DO-214AB Forward Current: 3.0A SMC/DO214AB package .128(3.25) .108(2.75) 245(6.22) 220(5.59) **FEATURES** · Low profile package Built-in strain relief • Easy pick and place .280 (7.11) .260 (6.60) • Superfast recovery times for high efficiency. Plastic package has Underwriters Laboratory .012 (.305) .006 (.152) Flammability Classification 94V-O .103(2.62) .079(2.00) **MECHANICAL DATA** .050 (1.27) .008(.203) .030 (0.76) .002(.051) Case: JEDEC DO-214AB molded plastic .320 (8.13) .305 (7.75) • Terminals: Solder plated, solderable per MIL-STD-750 ,Method 2026 Unit: inch (mm) • Polarity: Indicated by cathode band. • Weight: 0.25 g/ 0.0077oz



#### **Maximum Ratings & Thermal Characteristics**

(Ratings at 25  $^\circ\!\mathrm{C}$  ambient temperature unless otherwise specified.)

Parameter	Symbols	RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M	Units
Maximum Repetitive Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	IF(AV)	3							А
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	IFSM	90							A
Maximum Forward Voltage at 3 A	VF	1.3							V
Maximum DC Reverse Current $T_a = 25 \text{ °C}$ at Rated DC Blocking Voltage $T_a = 125 \text{ °C}$	I <sub>R</sub>	5 100							μA
Typical Junction Capacitance at V <sub>R</sub> =4V, f=1MHz	Cj	40							pF
Maximum Reverse Recovery Time <sup>(1)</sup>	trr	150 250 500				00	ns		
Typical Thermal Resistance <sup>(2)</sup>	Reja Rejc	45 15							°C/W
Operating and Storage Temperature Range	Tj, Tstg	-55 ~ +150							°C

Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A

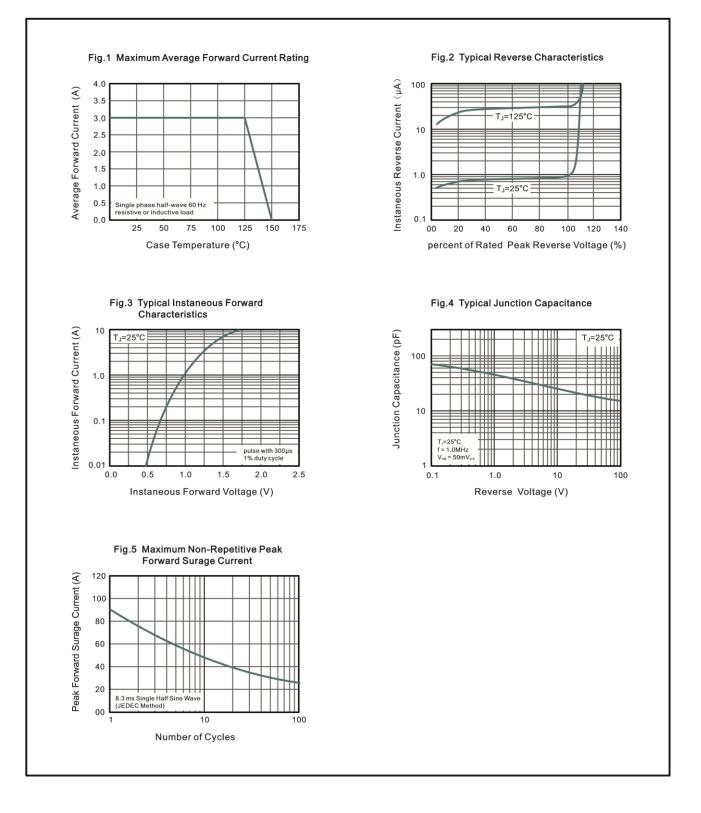
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 0.2x0.2" (5.0x5.0mm) copper pad areas

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#### **RATING AND CHARACTERISTIC CURVES**



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