

RS3ACG THRU RS3MCG

Surface Mount Fast Recovery Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 3 A

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Fast reverse recovery time
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

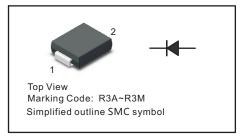
· Case: SMC

• Terminals: Solderable per MIL-STD-750, Method 2026

Approx. Weight: 0.22g / 0.0077oz

PINNING

PIN	DESCRIPTION			
1	Cathode			
2	Anode			



Absolute Maximum Ratings and Characteristics

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

Parameter	Symbols	RS3ACG	RS3BCG	RS3DCG	RS3GCG	RS3JCG	RS3KCG	RS3MCG	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current	I _{F(AV)}	3							Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	90							А
Maximum Forward Voltage at 3 A	V _F	1.3							V
Maximum DC Reverse Current $T_a = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_a = 125 ^{\circ}\text{C}$	I _R	5 100							μΑ
Typical Junction Capacitance at V _R =4V, f=1MHz	C _j	40							pF
Maximum Reverse Recovery Time (1)	t _{rr}	150 250 500			00	ns			
Typical Thermal Resistance (2)	$R_{ heta_{JC}}$	45 15						°C/W	
Operating and Storage Temperature Range	T_{j}, T_{stg}	-55 ~ +150						°C	

⁽¹⁾ Measured with $I_F = 0.5 A$, $I_R = 1 A$, $I_{rr} = 0.25 A$.

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⁽ 2) P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



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Fig.1 Maximum Average Forward Current Rating

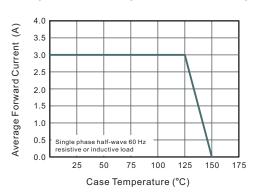


Fig.2 Typical Reverse Characteristics

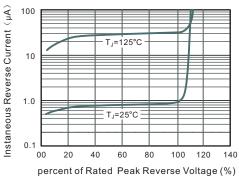


Fig.3 Typical Instaneous Forward Characteristics

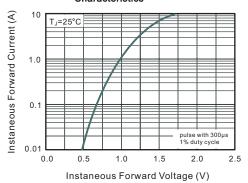


Fig.4 Typical Junction Capacitance

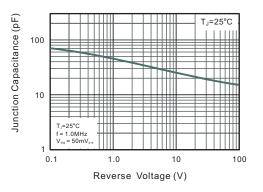
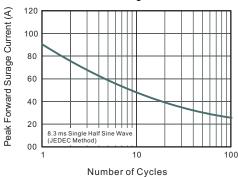


Fig. 5 Maximum Non-Repetitive Peak Forward Surage Current



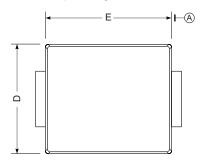
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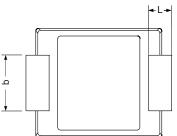
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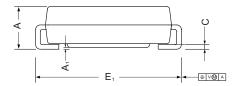
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads





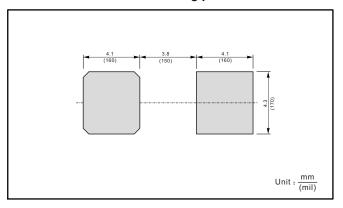




SMC mechanical data

UNIT		А	E	D	E ₁	A ₁	С	L	b
mm	max	2.62	7.0	6.2	8.0	0.21	0.31	1.6	3.25
mm	min	2.00	6.5	5.6	7.6	0.05	0.15	0.9	2.75
mil	max	103	276	244	315	8.3	12	63	128
11111	min	79	256	220	299	2.0	5.9	35	108

The recommended mounting pad size



Marking

Type number	Marking code				
RS3ACG	RS3A				
RS3BCG	RS3B				
RS3DCG	RS3D				
RS3GCG	RS3G				
RS3JCG	RS3J				
RS3KCG	RS3K				
RS3MCG	RS3M				

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