

DESCRIPTION

The DRS1AG ~ DRS1MG are available in SMA package

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
- Available in SMA package

MECHANICAL DATA

Case: SMA

Terminals: Solderable per MIL-STD-750,

Method 2026

Approx. Weight: 0.055g / 0.002oz

Package Type	Part Number				
	DRS1AG				
SMA	DRS1BG				
	DRS1DG				
	DRS1GG DRS1JG				
				DRS1KG	
	DRS1MG				
	Note	SPQ: 5,000pcs/Reel			
AiT provides all RoHS Compliant Products					

ORDERING INFORMATION

PIN DESCRIPTION





MAXIMUM RATINGS AND ELECTRICAL 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		Symbol	DRS1AG	DRS1BG	DRS1DG	DRS1GG	DRS1JG	DRS1KG	DRS1MG	Unit
Maximum Repetitive Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blockin	Maximum DC Blocking Voltage		50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _A =125°C		IF(AV)		1.0						А
Peak Forward Surge Current 8.3ms Single Half Sine Wave Superimposed on Rated Load		Ifsm		30						A
Maximum Forward Voltage at 1A		VF	1.3						V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C T _A =125°C	IR		5.0 50					μΑ	
Typical Junction Capacitance at VR=4V, f=1MHz			15						pF	
Maximum Reverse Recovery Time ^{NOTE1}		trr	150 250 500				00	ns		
Typical Thermal Resistance		Reja	75						°C/W	
Operating and Storage Temperature Range		Tj, Tstg		-55 ~150						°C

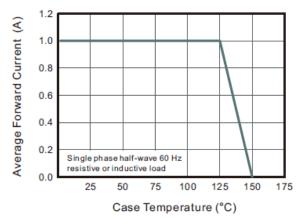
NOTE1: Measured with I_F=0.5A, I_R=1A, I_{rr}=0.25A

NOTE2:P.C.B. mounted with 1.0 X 1.0" (2.54 X 2.54 cm) copper pad areas.

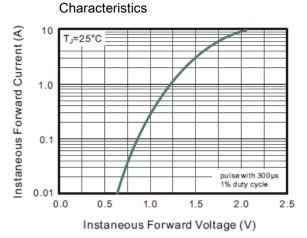


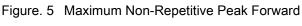
TYPICAL CHARACTERISTICS

Figure. 1 Forward Current Derating Curve









Surge Current 35 30 36 30 25 20 15 10 05 8.3ms Single Half Sine Wave 00 1 10 10 Number of Cycles



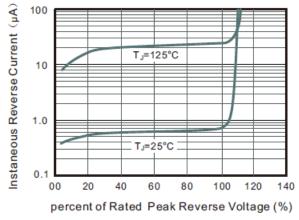
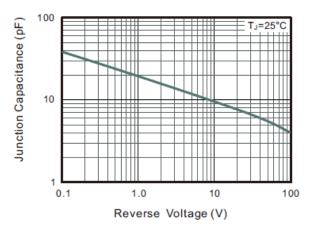


Figure. 4 Typical Junction Capacitance

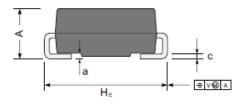




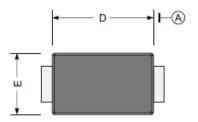
PACKAGE INFORMATION

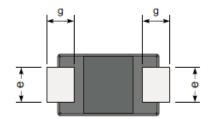
Dimension in SMA (Unit: mm)

Plastic surface mounted package; 2 leads

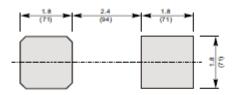








The recommended mounting pad size



Unit : $\frac{mm}{(mil)}$

UN	IT	А	D	Е	HE	С	е	g	а
mm	Max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.3
	Min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	
mil	Max	87	181	106	205	12	63	59	12
	Min	75	157	91	185	6	51	35	



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