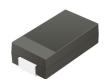


RS1A-HF Thru. RS1M-HF

Reverse Voltage: 50 to 1000 Volts

Forward Current: 1 Amp

RoHS Device Halogen Free



Features

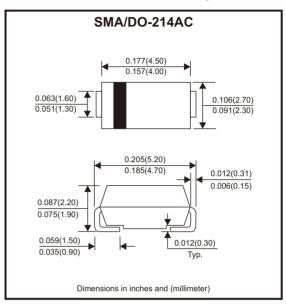
- For surface mounted applications.
- Low profile package.
- Glass passivated chip junction.
- Easy to pick and place.
- Fast reverse recovery time.

Mechanical data

- Case: SMA

- Terminals: Solderable per MIL-STD-750,

method 2026.



Circuit Diagram



Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz resistive or inductive load, for capacitive load, derate by 20%

Parameter	Symbols	RS1A -HF	RS1B -HF	RS1D -HF	RS1G -HF	RS1J -HF	RS1K -HF	RS1M -HF	Units
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	٧
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	٧
Maximum average forward rectified current at Tc =125°C	lf(AV)	1						А	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	Ігѕм	30					А		
Max. forward voltage at 1A	VF	1.3						V	
	lr	5 50					μA		
Typical junction capacitance at VR = 4V, f = 1MHz	- f				pF				
Maximum reverse recovery time (Note 1)	trr	150 250 500					00	ns	
Typical thermal resistance (Note 2)	Rөja	75			°C/W				
Operating and storage temperature range	Tj, Tstg	-55 ~ + 150				°C			

Notes: 1. Measured with IF = 0.5A, IR = 1A, Irr = 0.25A.

2. P.C.B. mounted with 1.0 x 1.0" (2.54 x 2.54 cm) copper pad areas.

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SMD Fast Recovery Rectifiers



Rating and Characteristic Curves (RS1A-HF Thru. RS1M-HF)

Fig.1 - Forward Current Derating Curve

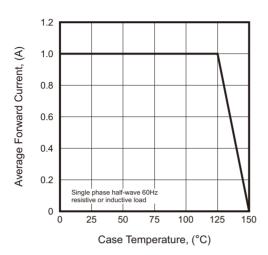


Fig.3 - Typical Instantaneous Forward Characteristic

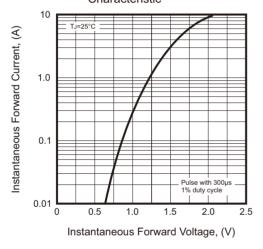


Fig.5 - Maximum Non-Repetitive Peak Forward Surge Current

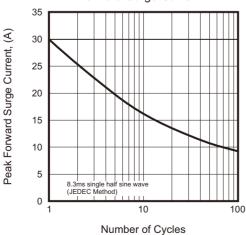


Fig.2 - Typical Reverse Characteristics

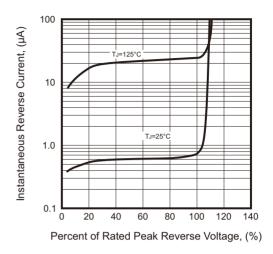
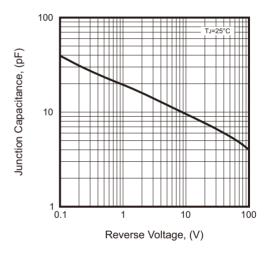


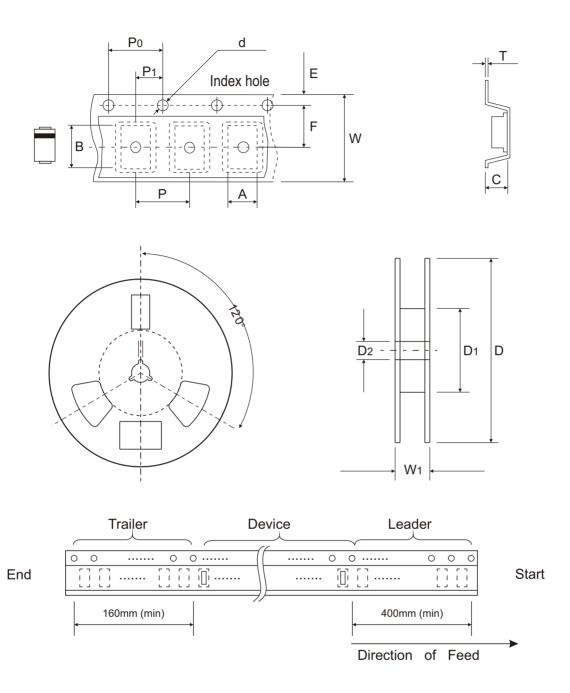
Fig.4 - Typical Junction Capacitance



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Reel Taping Specification



	SYMBOL	Α	В	С	d	D	D1	D2
DO-214AC (SMA)	(mm)	2.70 ± 0.10	5.33 ± 0.10	2.35 ± 0.10	1.55 ± 0.05	330 ± 2.00	75.00 ± 1.00	13.00 ± 0.20
	(inch)	0.106 ± 0.004	0.210 ± 0.004	0.093 ± 0.004	0.061 ± 0.002	12.992 ± 0.079	2.953 ± 0.039	0.512 ± 0.008

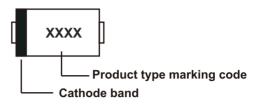
	SYMBOL	E	F	Р	P0	P1	Т	W	W 1
DO-214AC (SMA)	(mm)	1.75 ± 0.10	5.50 ± 0.05	4.00 ± 0.10	4.00 ± 0.10	2.00 ± 0.10	0.20 ± 0.03	12.00 ± 0.30	14.70 + 2.00 - 1.00
	(inch)	0.069 ± 0.004	0.217 ± 0.002	0.157 ± 0.004	0.157 ± 0.004	0.079 ± 0.004	0.008 ± 0.001	0.472 ± 0.012	0.579 + 0.079 - 0.039

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Marking Code

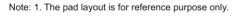
Part Number	Marking Code
RS1A-HF	RS1A
RS1B-HF	RS1B
RS1D-HF	RS1D
RS1G-HF	RS1G
RS1J-HF	RS1J
RS1K-HF	RS1K
RS1M-HF	RS1M

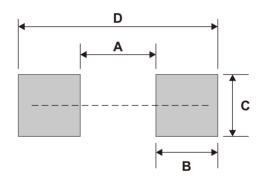


xxxx = Product type marking code

Suggested PAD Layout

SIZE	DO-214AC (SMA)			
0121	(mm)	(inch)		
Α	2.40	0.094		
В	1.80	0.071		
С	1.80	0.071		
D	6.00	0.236		





Standard Packaging

	REEL PACK			
Case Type	REEL (pcs)	Reel Size (inch)		
DO-214AC (SMA)	5,000	13		

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ACGRB207-HF CLH03(TE16L,Q) ACGRC307-HF ACEFC304-HF NTE6356 NTE6359 NTE6002 NTE6023 NTE6039 NTE6077

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