Surface Mount Rectifier

multicomp



Features:

- Low Profile Package
- For Surface Mounted Applications
- Built-In Strain Relief, Ideal for Automated Placement
- High Temperature Soldering : 260°C/10 seconds at Terminals

Mechanical Data

- Case : JEDEC SMA, molded plastic over passivated chip
- Terminals : solder plated, solderable per MIL-STD-750, method 2026
- Polarity : Colour band denotes cathode end
- Weight : 0.002oz, 0.064g

Maximum Ratings and Thermal Characteristics

Ratings at 25°C ambient temperature unless otherwise specified

Characteristic	Symbol	RS1D-13-F	RS1J-13-F	RS1K-13-F	RS1M-13-F	Units
Maximum repetitive peak reverse voltage	Vrrm	200	600	800	1,000	V
Maximum RMS voltage	Vrms	140	420	560	700	V
Maximum DC blocking voltage	V dc	200	600	800	1,000	V
Maximum average forward rectified current at T_L =90°C	lf(av)	1			А	
Peak forward surge current 8.3ms single half-sine-wave superimposed on rated load	Ігѕм	30			А	
Maximum Instantaneous Forward Voltage at 1A	VF	1.3			V	
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C	lr	5 50		μA		
Typical reverse recovery time (Note 1)	tıт	150	250	50	00	ns
Typical junction capacitance (Note 2)	CJ	10 7		7	pF	
Typical thermal resistance (Note3)	Reja Rejl	105 32		°C/W		
Operating junction and storage temperature range	Tj, Tstg	-55 to +175		°C		

Note:

(1) Reverse recovery time test conditions : IF=0.5A, IR=1.0A, Irr=0.25A

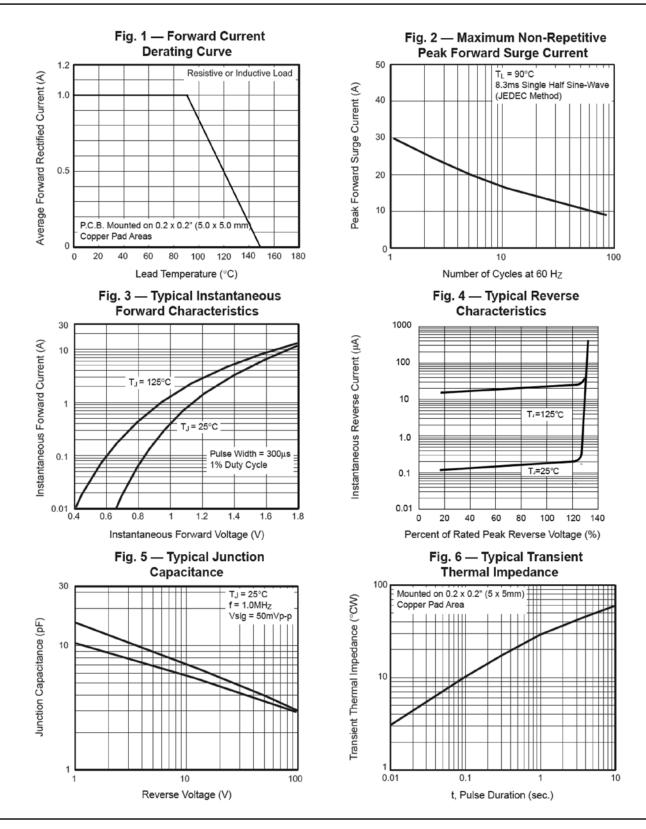
- (2) Measured at 1MHz and applied reverse voltage of 4V
- (3) Thermal resistance from junction to lead

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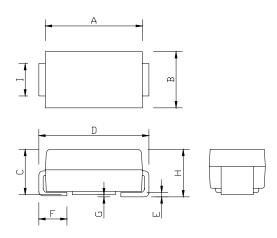




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Package Outline Dimensions

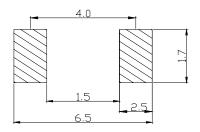


DO-214AC(SMA)					
Dim.	Min.	Max.			
A	4.25	4.65			
В	2.4	2.8			
С	1.85	2.15			
D	4.85	5.35			
E	0.2 Typ.				
F	0.9	1.5			
G	0.2 Max.				
н	1.9	2.3			
I	1.35	1.65			

Dimensions : Millimetres

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Soldering Footprint



Dimensions : Millimetres

Package Information

Device	Package	Shipping
RS1D-13-F RS1J-13-F RS1K-13-F RS1M-13-F	DO-214AC(SMA)	5,000 / Tape & Reel

Part Number Table

Description	Part Number		
Surface Mount Rectifier	RS1D-13-F		
	RS1J-13-F		
	RS1K-13-F		
	RS1M-13-F		

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