RS2AF THRU RS2MF

Surface Mount Fast Recovery Rectifier

Reverse Voltage - 50 to 1000 V Forward Current - 2 A

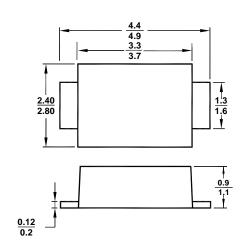
Features

- · Glass Passivated Chip Juntion
- · For surface mounted applications
- · Low profile package
- Fast reverse recovery time

Mechanical Data

· Case: SMAF

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



SMAF

All Dimensions in mm

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 current derate by 20%.

Parameter	Symbols	RS2AF	RS2BF	RS2DF	RS2GF	RS2JF	RS2KF	RS2MF	Units
	Marking								
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T _a = 65°C	I _{F(AV)}	2						Α	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	50						Α	
Maximum Forward Voltage at 2 A	V _F	1.3						V	
	I _R	5 100							μA
Maximum Reverse Recovery Time at $I_F = 0.5 \text{ A}$, $I_R = 1 \text{ A}$, $I_{rr} = 0.25 \text{ A}$	t _{rr}	150			250	50	00	ns	
Typical Junction Capacitance at $V_R = 4 \text{ V}$, $f = 1 \text{ MHz}$	C _j	40						pF	
Typical Thermal Resistance 1)	$R_{\theta JA}$	75						°C/W	
Operating Junction and Storage Temperature Range	T_j, T_{stg}	- 55 to + 150							°C

¹⁾ P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm) copper pad areas.







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