RS3AF THRU RS3MF

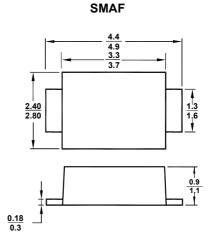
Surface Mount Fast Recovery Rectifier Reverse Voltage - 50 to 1000 V Forward Current - 3 A

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



All Dimensions in mm

Absolute Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

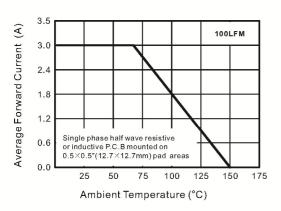
Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Decemeter	Symbols	RS3AF	RS3BF	RS3DF	RS3GF	RS3JF	RS3KF	RS3MF	Units
Parameter		RS3A	RS3B	RS3D	RS3G	RS3J	RS3K	RS3M	-
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 $T_a = 65^{\circ}C$	I _{F(AV)}	3						А	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	100						А	
Maximum Forward Voltage at 3 A	V _F	1.3						V	
Maximum Reverse Current $T_a = 25^{\circ}C$ at Rated DC Blocking Voltage $T_a = 125^{\circ}C$	I _R	5 150							μA
Maximum Reverse Recovery Time at $I_F = 0.5 A$, $I_R = 1 A$, $I_{rr} = 0.25 A$	t _{rr}	150			250		ns		
Typical Junction Capacitance at V_R = 4 V, f = 1 MHz	Cj	60						pF	
Typical Thermal Resistance ¹⁾	$R_{\theta JA}$	60						°C/W	
Operating Junction and Storage Temperature Range	Tj, T _{stg}	- 55 to + 150						°C	

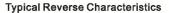
¹⁾ P.C.B. mounted with 0.5 X 0.5" (12.7 X 12.7 mm) copper pad areas.

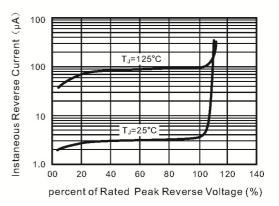


TOP DYNAMIC

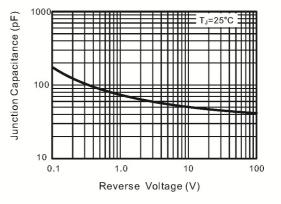


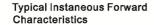
Forward Current Derating Curve

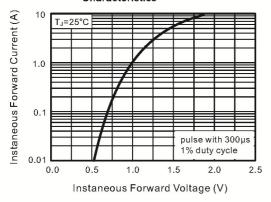


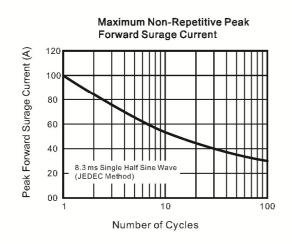


Typical Junction Capacitance











TOP DYNAMIC