

FS2AA-FS2MA

1.5AMP.Surface Mount Fast Recovery Rectifiers

SMA/DO-214AC



Features

- ∻ For surface mounted application
- ∻ Glass passivated junction chip
- ∻ Built-in strain relief, ideal for automated placement
- Plastic material used carries Underwriters ∻ Laboratory Classification 94V-0
- ∻ Fast switching for high efficiency
- High temperature soldering: ∻ 260 °C / 10 seconds at terminals

Mechanical Data

- ∻ Cases: Molded plastic
- Terminals: Pure tin plated, Lead free. ∻
- Polarity: Indicated by cathode band ∻
- ∻ Packing: 12mm tape
- ♦ Weight: 0.064 gram

Dimensions in inches and (millimeters)

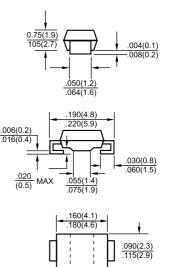
Maximum Ratings and Electrical Characteristics

Rating 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%

Type Number	Symbol	FS 2AA	FS 2BA	FS 2DA	FS 2GA	FS 2JA	FS 2KA	FS 2MA	Units
Maximum Recurrent 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 See Fig. 1 @T∟=100°C	I _(AV)	1.5							А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	50							А
Maximum Instantaneous Forward Voltage @ 1.5A	V _F	1.3						V	
Maximum DC Reverse Current @ T _A =25°C at Rated DC Blocking Voltage @ T _A =125°C	I _R	5 200							uA uA
Maximum Reverse Recovery Time (Note 1)	Trr		150 250 500				00	nS	
Typical Junction Capacitance (Note 2)	Cj	50						pF	
Typical Thermal Resistance (Note 3)	R _{θJA}	55							°C /W
	R _{θJL}	18							
Operating Temperature Range	TJ	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C
Notes: 1. Reverse Recovery Test Conditi	ons: I _F =0.5	5A, I _R =	1.0A, I _R	_R =0.25/	Ą				•

2. Measured at 1 MHz and Applied V_R=4.0 Volts

3. Thermal Resistance from Junction to Ambient and Junction to Lead Mounted on P.C.B. with 0.2"x0.2" (5.0 x 5.0 mm) Copper Pad Areas.





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RATINGS AND CHARACTERISTIC CURVES (FS2AA THRU FS2MA)

