FR1A THRU FR1M 查询"FR1A"供应商

SURFACE MOUNT FAST RECOVERY RECTIFIER

Reverse Voltage - 50 to 1000 V

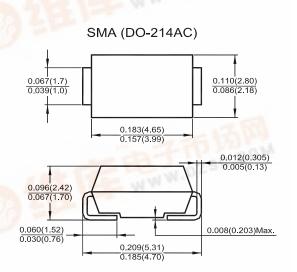
Forward Current - 1 A

Features

- For surface mounted applications
- Low profile package
- Built-in strain relief
- · Easy pick and place
- Fast Recovery times for high efficiency
- Plastic package has UL Flammability Classification 94V-0

Mechanical Data

- Case: Molded plastic, SMA (DO-214AC)
- Terminals: Solder plated, solderable per MIL-STD-750, method 2026 guaranteed
- Polarity: color band denotes cathode end



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Ratings 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%.

Parameter	Symbols	FR1A	FR1B	FR1D	FR1G	FR1J	FR1K	FR1M	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 Current T _L = 90 °C	I _{F(AV)}	1 DZ50-						50.0	Α
Peak Forward Surge Current, 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	30						A	
Maximum Forward Voltage at I _F = 1 A	V _F	1.3							V
Maximum Reverse Current at $T_a = 25 \circ C$ Rated DC Blocking Voltage $T_a = 125 \circ C$	I _R	5 150							μA
Maximum Reverse Recovery Time 1)	t _{rr}		150		250	50	00	ns	
Typical Junction Capacitance ²⁾	CJ	12							pF
Typical Thermal Resistance ³⁾	R _{θJL}	32				50	°C/W		
Operating and Storage Temperature Range	T _J , T _S	- 55 to + 150							°C

¹⁾ Reverse recovery test conditions: $I_F = 0.5 A$, $I_R = 1 A$, $I_{rr} = 0.25 A$

²⁾ Measured at 1 MHz and applied reverse voltage of 4 V

³⁾ Thermal resistance from junction to lead mounted on P.C.B. with 0.3 X 0.3" (8 X 8 mm) copper pad areas



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)





RATING AND CHARACTERISTIC CURVES

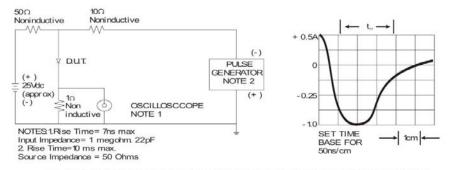


Fig. 1-REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

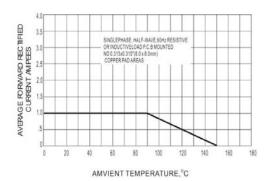
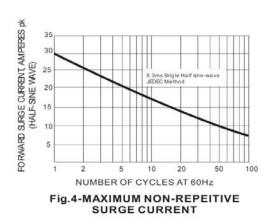
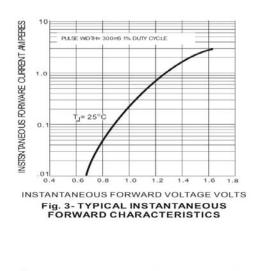
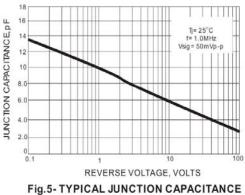


Fig. 2-MAXIMU AVERAGE FORWARD CURRENT RATING









SEMTECH ELECTRONICS LTD. (Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



Dated : 14/04/2008 H