1F1G THRU 1F7G

Fast Recovery Glass Passivated Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 1 A

Features

- The plastics package carries UL Flammability Classification 94V-0
- High switching for high efficiency
- Low reverse leakage
- High forward surge current capability

Mechanical Data

- Case: Molded plastic, R-1
- Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
- Polarity: color band denotes cathode end
- Mounting Position: Any

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, derate current by 20%.

Parameter	Symbols	1F1G	1F2G	1F3G	1F4G	1F5G	1F6G	1F7G	Units
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 0.375" (9.5 mm) Lead Length at $T_A = 25 \text{ °C}$	I _{F(AV)}	1							А
Peak Forward Surge Current, 8.3 ms Single Half- Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	25							A
Maximum Instantaneous Forward Voltage at 1 A	V _F	1.3							V
Maximum Reverse Current $T_A = 25 \text{ °C}$ at Rated DC Blocking Voltage $T_A = 100 \text{ °C}$	I _R	5 100							μA
Typical Junction Capacitance 1)	CJ	15							pF
Maximum Reverse Recovery Time 2)	t _{rr}	150 250 500				ns			
Operating and Storage Temperature Range	$T_{j,} T_{stg}$	- 55 to + 150							°C

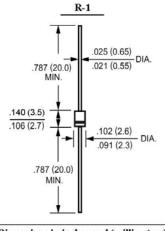
¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V DC.

 $^{2)}$ Reverse recovery test conditions: I_{F} = 0.5 A, I_{R} = 1 A, I_{rr} = 0.25 A.

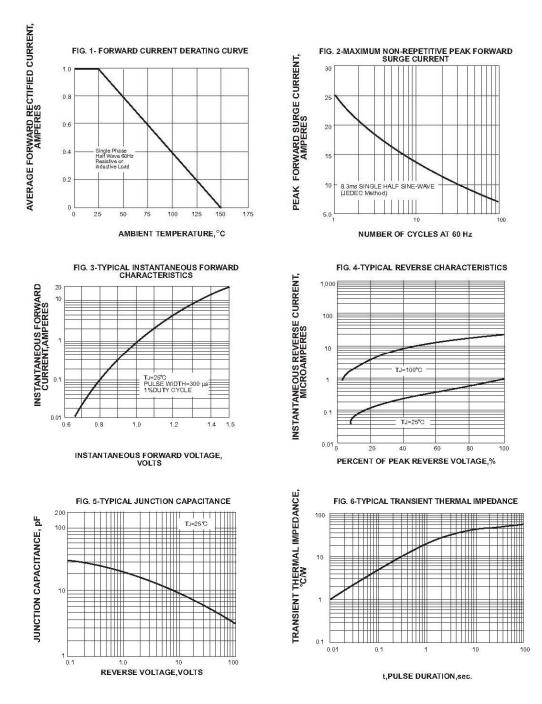








Dimensions in inches and (millimeters)









Dated : 17/03/2010 C Rev: 01