1F1G THRU 1F7G

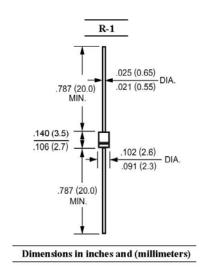
Fast Recovery Glass Passivated Rectifiers Reverse Voltage - 50 to 1000 V Forward Current - 1 A

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%.

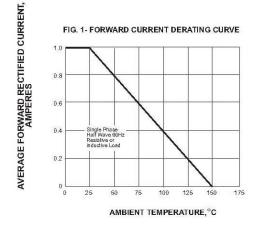
Tor capacitive load, derate current by 2070.	1								
Parameter	Symbols	1F1G	1F2G	1F3G	1F4G	1F5G	1F6G	1F7G	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current 0.375" (9.5 mm) Lead Length at T _A = 25 °C	I _{F(AV)}	1							Α
Peak Forward Surge Current, 8.3 ms Single Half- Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	25							А
Maximum Instantaneous Forward Voltage at 1 A	V _F	1.3							V
Maximum Reverse Current $T_A = 25 ^{\circ}\text{C}$ at Rated DC Blocking Voltage $T_A = 100 ^{\circ}\text{C}$	I _R	5 100							μΑ
Typical Junction Capacitance 1)	CJ	15							pF
Maximum Reverse Recovery Time 2)	t _{rr}		15	50		250	50	00	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.



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²⁾ Reverse recovery test conditions: $I_F = 0.5 \text{ A}$, $I_R = 1 \text{ A}$, $I_{rr} = 0.25 \text{ A}$.



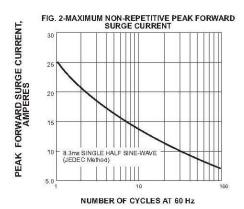
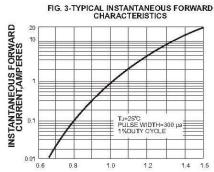
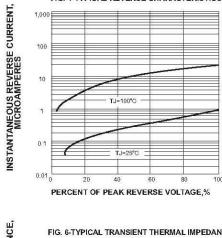
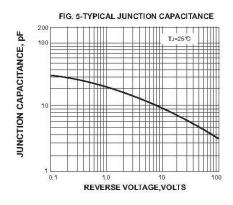


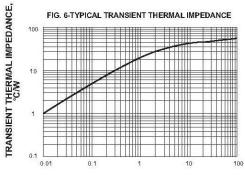
FIG. 4-TYPICAL REVERSE CHARACTERISTICS















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