FR101 THRU FR107

FAST RECOVERY RECTIFIERS Reverse Voltage - 50 to 1000 V Forward Current - 1 A

Features

- High current capability
- High reliability
- Low leakage

Mechanical Data

- Case: Molded plastic, DO-41
- Epoxy: UL 94V-0 rate flame retardant
- Lead: Axial leads, solderable per MIL-STD-202, Method 208 guaranteed
- Polarity: Color band denotes cathode end
- Mounting Position: Any

DO-41 , 0(25, 4) MIN 0, 000 (2, 0) DIA 0, 0034 (0, 80) 0, 028 (0, 70) 0, 000 (2, 0) DIA 0, 0034 (0, 80) 0, 0034 (0, 80) 0, 000 (2, 0) DIA 0, 0034 (0, 80) 0, 000 (2, 0) DIA 0, 000 (2, 0)

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	FR101	FR102	FR103	FR104	FR105	FR106	FR107	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 0.375" (9.5 mm) Lead Length at $T_A = 55 \text{ °C}$	I _{F(AV)}	1							А
Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30							A
Maximum Forward Voltage at 1 A	V _F	1.3							V
Maximum Reverse Current $T_A = 25 ^{\circ}C$ at Rated DC Blocking Voltage $T_A = 100 ^{\circ}C$	I _R	5 500							μΑ
Typical Junction Capacitance ¹⁾	CJ	15							pF
Typical Thermal Resistance ²⁾	$R_{ ext{ heta}JA}$	50							°C/W
Maximum Reverse Recovery Time 3)	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 D.C.

²⁾ Thermal resistance from junction to ambient 0.375"(9.5 mm) lead length P.C.B mounted.

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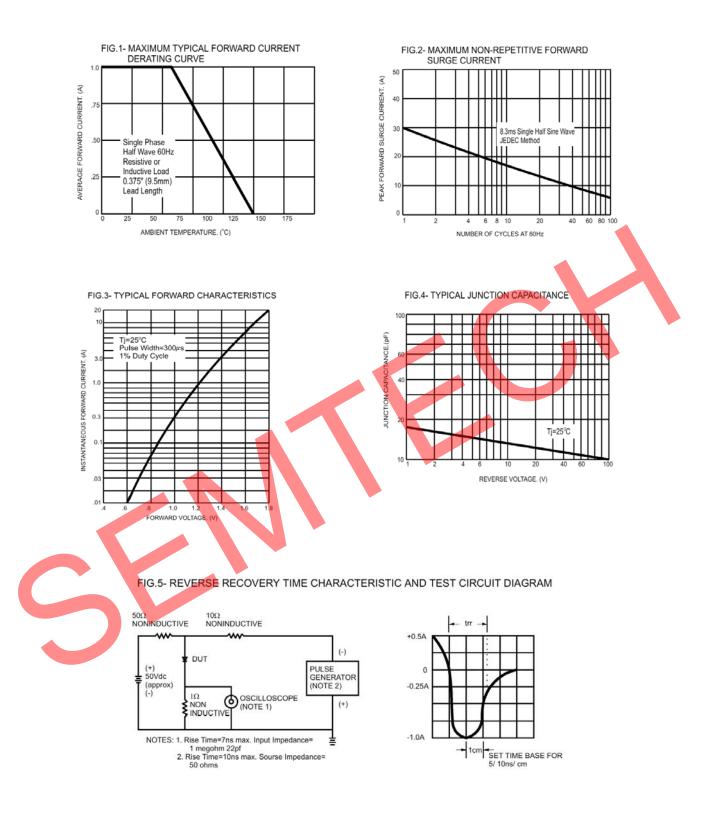
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 $^{3)}$ Reverse recovery test conditions: I_{F} = 0.5 A, I_{R} = 1 A, I_{rr} = 0.25 A.





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