

FR101 THRU FR107

TECHNICAL SPECIFICATIONS OF FAST RECOVERY RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 1.0 Ampere

FEATURES

- * Fast switching
- * Low leakage
- * Low forward voltage drop
- * High current capability
- * High surge capability
- * High reliability

MECHANICAL DATA

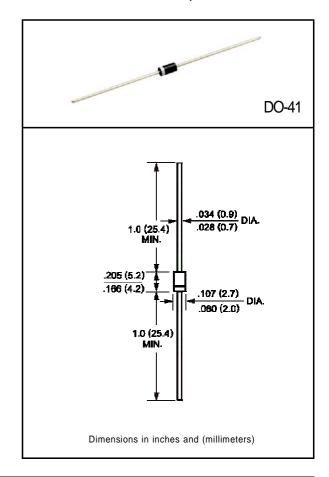
* Case: Molded plastic

* Epoxy: UL 94V-0 rate flame retardant * Lead: MIL-STD-202E, Method 208 guaranteed

* Mounting position: Any* Weight: 0.33 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%.

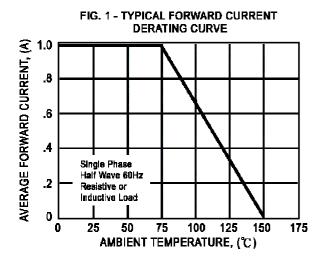


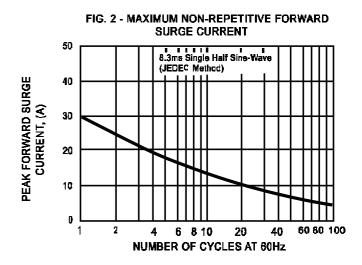
	SYMBOL	FR101	FR102	FR103	FR104	FR105	FR106	FR107	UNITS
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 75°C	lo	1.0							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30							Amps
Maximum Instantaneous Forward Voltage at 1.0A DC	VF	1.3							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C	5.0								uAmps
Maximum Full Load Reverse Current Full Cycle Average, .375*(9.5mm) lead length at T L = 55°C	T IR	100							uAmps
Maximum Reverse Recovery Time (Note 1)	trr	150 2			250	5	500	nSec	
Typical Junction Capacitance (Note 2)	Cı	15							pF
Operating and Storage Temperature Range	Тл, Тятс	-65 to + 150							٥C

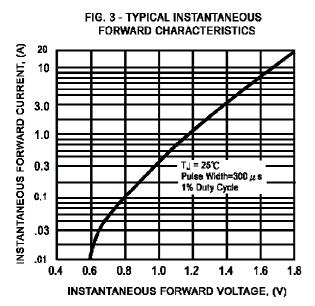
NOTES: 1. Test Conditions: IF = 0.5A, IR = 1.0A, IRR = 0.25A

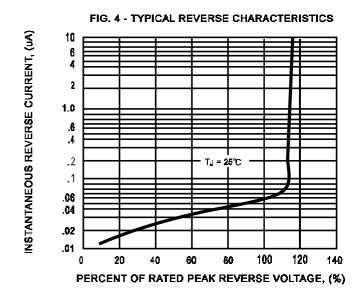
2. Measured at 1 MHz and applied reverse voltage of 4.0 volts

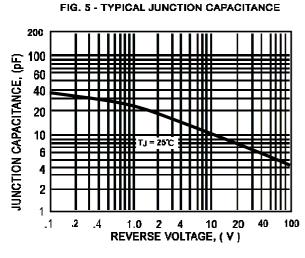
RATING AND CHARACTERISTIC CURVES (FR101 THRU FR107)











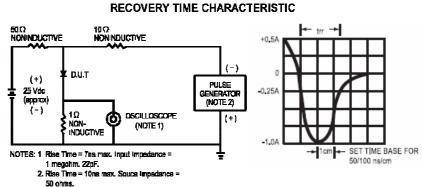


FIG. 6 - TEST CIRCUIT DIAGRAM AND REVERSE