

FUKUCOM COMPANY LTD.

福靈工有限、公司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD, KWUN TONG, KOWLOON, HONG KONG.

TEL: 2790-0314

FAX: 2790-0206



RECTIFIER SPECIALISTS

FR151 THRU FR157

TECHNICAL SPECIFICATIONS OF FAST RECOVERY RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 1.5 Amperes

FEATURES

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

MECHANICAL DATA

* Case: Molded plastic

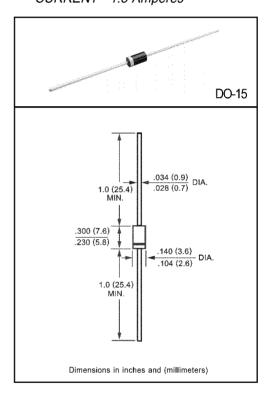
* Epoxy: UL 94V-0 rate flame retardant

* Lead: MIL-STD-202E, Method 208 guaranteed

* Mounting position: Any * Weight: 0.38 gram

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%.



	SYMBOL	FR151	FR152	FR153	FR154	FR155	FR156	FR157	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	1.5						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	lfsm	60						Amps	
Maximum Instantaneous Forward Voltage at 1.5A DC	VF	1.3							Volts
Maximum DC Reverse Current at Rated DC Blocking Voltage TA = 25°C	la la	IR 5.0							uAmps
Maximum Full Load Reverse Current Full Cycle Average, .375*(9.5mm) lead length at T L = 55°C	IR IR								uAmps
Maximum Reverse Recovery Time (Note 1)	trr	150			250	Ę	500	nSec	
Typical Junction Capacitance (Note 2)	C J	40							pF
Operating and Storage Temperature Range	TJ, TSTG	-65 to + 150							°C

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



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RATING AND CHARACTERISTIC CURVES (FR151 THRU FR157)

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

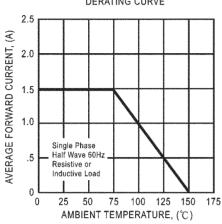


FIG. 2 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

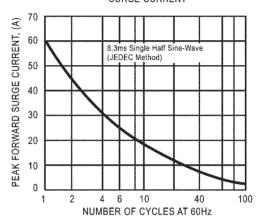


FIG. 3 - TYPICAL INSTANTANEOUS

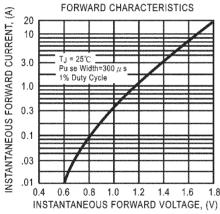


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

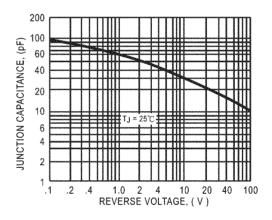


FIG. 5 - TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC

