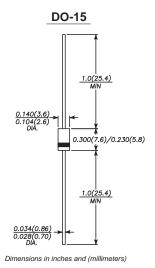
FR151 THRU FR157

FAST RECOVERY RECTIFIERS

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.5 Amperes



FEATURES

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Low reverse leakage
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds, 0.375" (9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC DO-15 molded plastic body

Terminals: Plated axial leads, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.014 ounce, 0.40 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

	SYMBOLS	FR 151	FR 152	FR 153	FR 154	FR 155	FR 156	FR 157	UNITS	
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V	
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V	
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V	
Maximum average forward rectified current	Icano	I _(AV) 1.5							А	
0.375"(9.5mm) lead length at Ta=75°C	I(AV)									
Peak forward surge current										
8.3ms single half sine-wave superimposed on	IFSM 60.0							Α		
rated load (JEDEC Method)										
Maximum instantaneous forward voltage at 1.5A	VF	1.3							V	
Maximum DC reverse current Ta=25℃		5.0							μА	
at rated DC blocking voltage Ta=100℃	l R				50.0				μΑ	
Maximum reverse recovery time (NOTE 1)	trr		15	0		250	50	00	ns	
Typical junction capacitance (NOTE 2)	Cı	30.0						pF		
Typical thermal resistance (NOTE 3)	RθJA	50.0						°C/W		
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C	

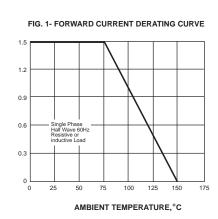
Note: 1. Reverse recovery condition IF=0.5A, IR=1.0A, Irr=0.25A

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 3.Thermal resistance from junction to ambient at 0.375"(9.5mm)lead length,P.C.B. mounted



RATINGS AND CHARACTERISTIC CURVES FR151 THRU FR157







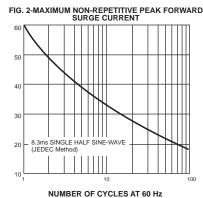


FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS 20 10

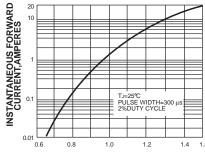
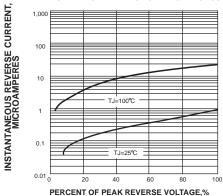
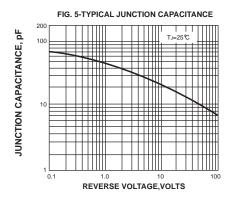
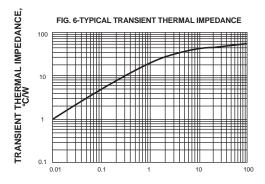


FIG. 4-TYPICAL REVERSE CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, VOLTS





t.PULSE DURATION.sec.

