



**FR151G THRU FR157G**

GLASS PASSIVATED

FAST RECOVERY RECTIFIER

**VOLTAGE: 50 TO 1000V CURRENT: 1.5A**

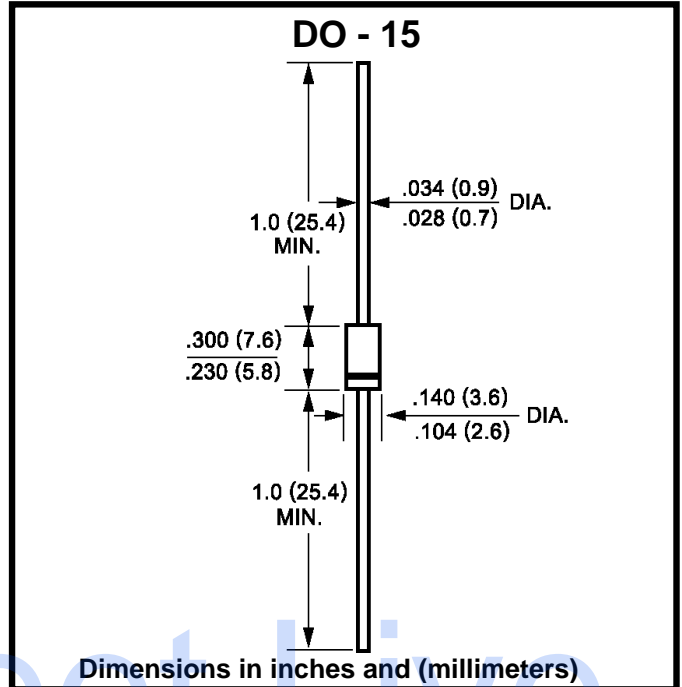
TECHNICAL  
SPECIFICATION

**FEATURES**

- Molded case feature for auto insertion
- Glass passivated chip
- High current capability
- Low leakage current
- Fast switching for high efficiency
- High surge capability
- High temperature soldering guaranteed:  
250°C/10sec/0.375"(9.5mm) lead length  
at 5 lbs tension

**MECHANICAL DATA**

- Terminal: Plated axial leads solderable per  
MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-O  
recognized flame retardant epoxy
- Polarity: Color band denotes cathode
- Mounting position: Any



**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	FR 151G	FR 152G	FR 153G	FR 154G	FR 155G	FR 156G	FR 157G	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 (9.5mm lead length, at $T_a=55^\circ\text{C}$ )	$I_{F(AV)}$	1.5							A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	$I_{FSM}$	60.0							A
Maximum Instantaneous Forward Voltage (at rated forward current)	$V_F$	1.3							V
Maximum DC Reverse Current (at rated DC blocking voltage)	$I_R$	5.0 100							$\mu\text{A}$ $\mu\text{A}$
Maximum Reverse Recovery Time (Note 1)	$t_{rr}$	150			250	500		nS	
Typical Junction Capacitance (Note 2)	$C_J$	20							pF
Typical Thermal Resistance (Note 3)	$R_{\theta(ja)}$	40							$^\circ\text{C/W}$
Storage and Operation Junction Temperature	$T_{STG}, T_J$	-65 to +150							$^\circ\text{C}$

Note:

- 1.Reverse recovery condition  $I_F=0.5\text{A}$ ,  $I_R=1.0\text{A}$ ,  $I_{rr}=0.25\text{A}$
- 2.Measured at 1.0 MHz and applied voltage of  $4.0V_{dc}$
- 3.Thermal resistance from junction to ambient at 0.375" (9.5mm) lead length, P.C. board mounted