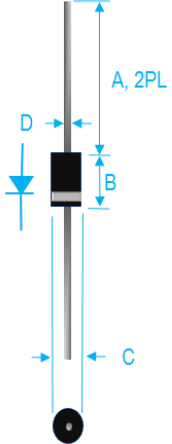


1.5A FAST RECOVERY GLASS PASSIVATED RECTIFIER

	Value Inch[mm]	
	Dim.	Min. Max.
A	1.000[25.40]	---
B	0.230[5.84]	0.300[7.62]
C	0.104[2.64]	0.140[3.56]
D	0.028[0.71]	0.034[0.86]

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. GLASS PASSIVATED CHIP JUNCTION
3. HIGH SURGE CURRENT CAPABILITY
4. CASE: TRANSFER MOLDED, DO-15
5. DIMENSIONS IN INCHES AND (MILLIMETERS)
6. POLARITY: INDICATED BY CATHODE BAND
7. WEIGHT : 0.4 GRAMS
8. TERMINAL SOLDERABILITY: PER MIL-STD-202, METHOD 208
9. RoHS

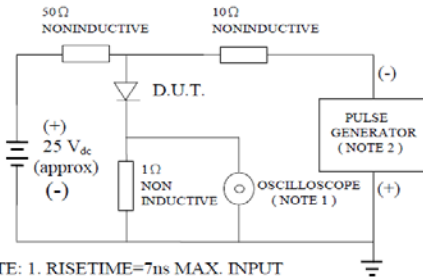
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED. STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO +150°C. SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%.

RATINGS	SYMBOL	VALUE	UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT, 0.375"(9.5mm) LEAD LENGTH @ 55°C	I_o	1.5	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	50	A
TYPICAL JUNCTION CAPACITANCE(NOTE 1)	C_J	25	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta ja}$	40	°C/W
MAXIMUM FORWARD VOLTAGE	V_F	1.3	V
MAXIMUM REVERSE CURRENT @ 25°C	I_R	5	uA
MAXIMUM REVERSE CURRENT @ 100°C	I_R	50	uA

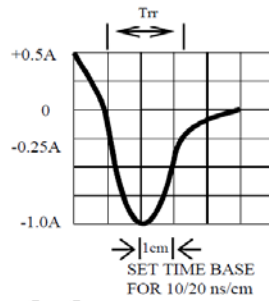
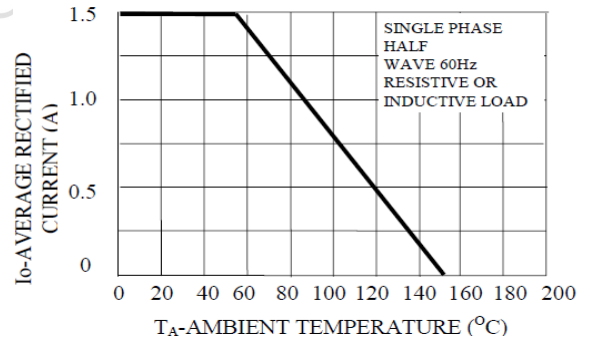
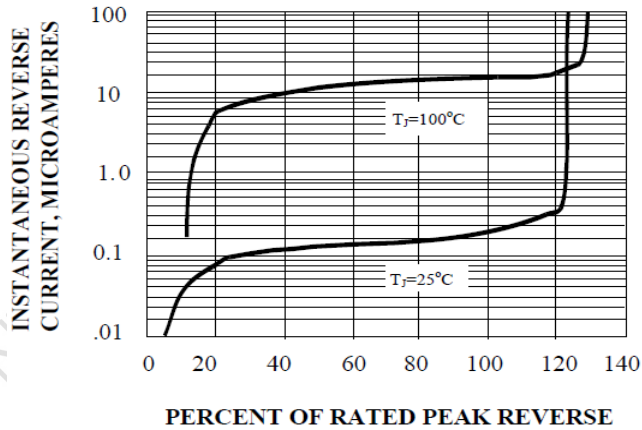
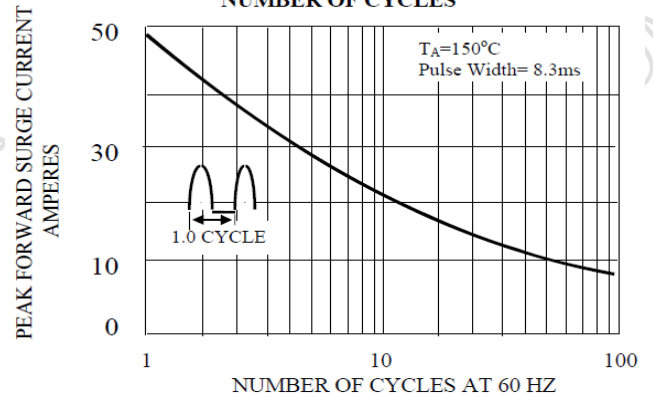
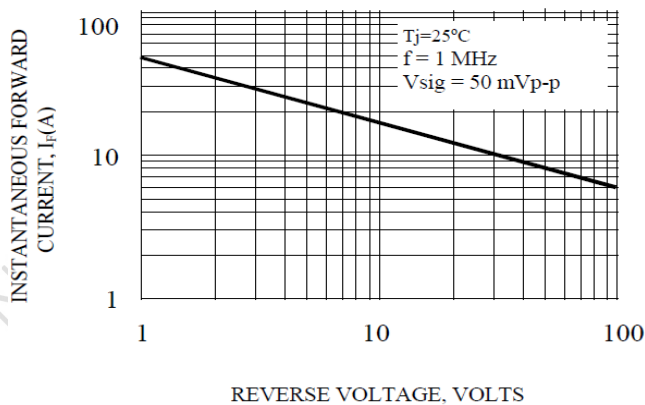
1. MEASURED @ 1.0 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 V
2. BOTH LEADS ATTACHED TO HEATSINK 20x20x1 (mm) COPPER PLATE AT LEAD LENGTH 5mm
3. REVERSE RECOVERY TEST CONDITIONS: $I_F=0.5A$, $I_R=1.0A$, $IRR=0.25A$
4. MAXIMUM FORWARD VOLTAGE AT I_o DC

PART NUMBER	MAX RECURRENT PK REV VOLTAGE V_{RRM} (V)	MAX RMS VOLTAGE V_{RMS} (V)	MAX DC BLOCKING VOLTAGE V_{DC} (V)	MAX REV RECOVERY TIME T_{RR} (nS)
FR151G	50	35	50	150
FR152G	100	70	100	150
FR153G	200	140	200	150
FR154G	400	280	400	150
FR155G	600	420	600	250
FR156G	800	560	800	500
FR157G	1000	700	1000	500

RATING AND CHARACTERISTIC CURVES

FIG. 1-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC


NOTE: 1. RISE TIME = 7ns MAX. INPUT IMPEDANCE = 1 MEGOHM 22PF
 2. RISE TIME = 10ns MAX. SOURCE IMPEDANCE = 50 OHMS


Fig. 2-MAXIMUM CURRENT DERATING CURVE

FIG. 3-TYPICAL REVERSE CHARACTERISTICS

Fig. 4-MAXIMUM FORWARD SURGE NUMBER OF CYCLES

FIG. 5-TYPICAL JUNCTION CAPACITANCE

FIG. 6-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS
