

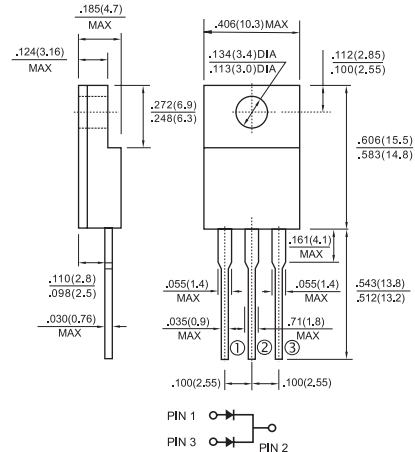
ITO-220AB

Features

- ✦ Ultrafast 35 and 60 Nanosecond Recovery times
- ✦ Popular ITO-220AB Package
- ✦ High temperature glass passivated junction
- ✦ High voltage capability to 600 volts
- ✦ Low leakage specified @ 150°C case temperature
- ✦ Current derating @ both case and ambient temperatures

Mechanical Data

- ✦ Case: Epoxy, molded
- ✦ Terminal : Pure tin plated, lead free
- ✦ Lead temperature for soldering purposes: 260°C Max. for 10 seconds
- ✦ Finish: all external surfaces corrosion resistant and terminal leads are readily solderable
- ✦ Shipped 50 units per plastic tube
- ✦ Weight : 2.24 grams



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Type Number	Symbol	MURF 1620CT	MURF 1640CT	MURF 1660CT	Units
Peak Repetitive Reverse Voltage	V_{RRM}				
Working Peak Reverse Voltage	V_{RWM}	200	400	600	V
DC Blocking Voltage	V_R				
Average Rectified Forward Current			8.0		Amps
Total Device, (Rated V_R), $T_C=150^\circ\text{C}$	$I_{F(AV)}$		16		
Total Device					
Peak Rectified Forward Current			16		Amps
(Rated V_R , Square Wave, 20 KHz), $T_C=150^\circ\text{C}$	I_{FM}				
Per Diode Leg					
Nonrepetitive Peak Surge Current			100		Amps
(Surge Applied at Rated Load Conditions	I_{FSM}				
Halfwave, Single Phase, 60 Hz)					
Operating Junction Temperature and Storage Temperature	T_J, T_{STG}	-65 to + 175			$^\circ\text{C/W}$
Maximum Thermal Resistance, Junction to Case	$R_{\theta JC}$	3.0	2.0		$^\circ\text{C}$
Maximum Instantaneous Forward Voltage					
(Note 1) ($I_F=8.0$ Amps, $T_C=25^\circ\text{C}$)	V_F	0.975	1.30	1.50	V
($I_F=8.0$ Amps, $T_C=150^\circ\text{C}$)		0.895	1.30	1.20	
Maximum Instantaneous Reverse Current					
at Rated DC Blocking Voltage @ $T_A=25^\circ\text{C}$	I_R	5.0	10		μA
@ $T_A=125^\circ\text{C}$		250	500		μA
Maximum Reverse Recovery Time					
($I_F=1.0$ Amp, $di/dt = 50$ Amps / us)	t_{rr}	35	60		nS
($I_F=0.5$ Amp, $I_R=1.0$ Amp, $I_{REC}=0.25$ Amp)		25	50		

Note: 1. Pulse Test: Pulse Width = 300 us, Duty Cycle $\leq 2.0\%$.

RATINGS AND CHARACTERISTIC CURVES (MURF1620CT THRU MURF1660CT)

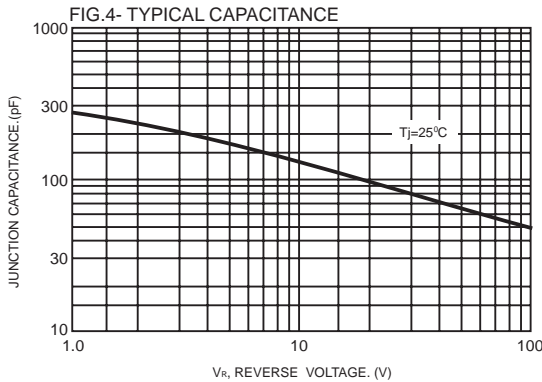
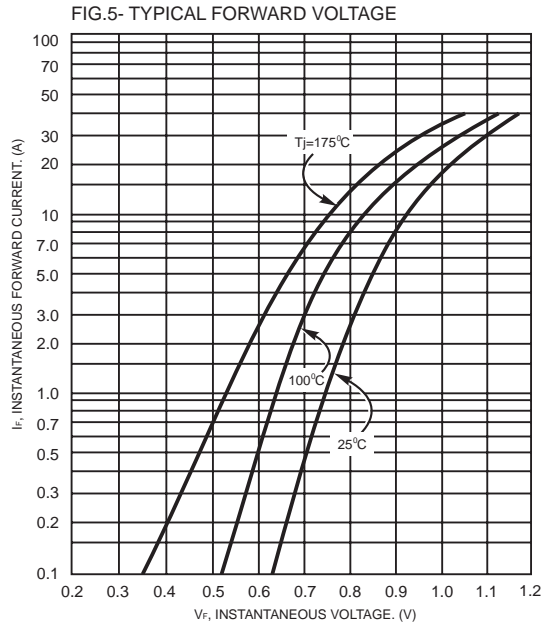
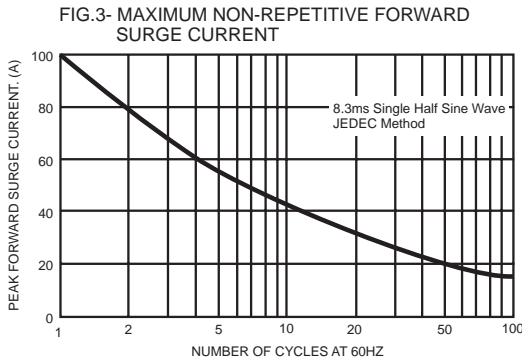
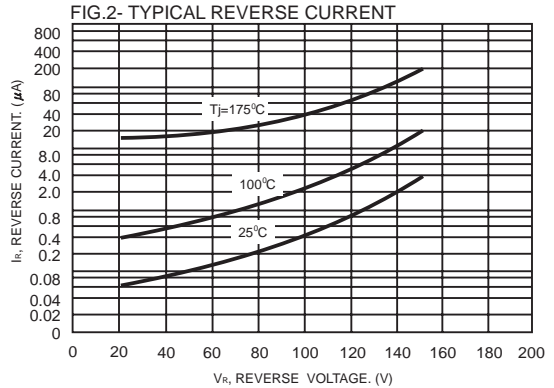
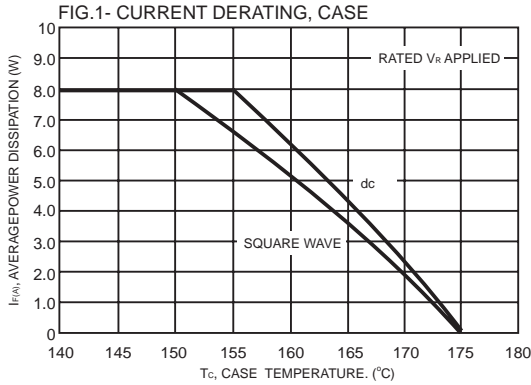
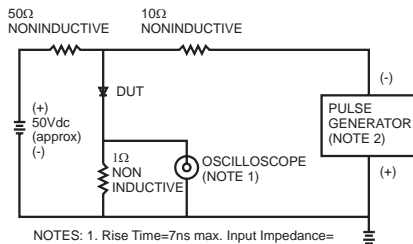


FIG.6- REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM



NOTES: 1. Rise Time=7ns max. Input Impedance=1 megohm 22pf
2. Rise Time=10ns max. Source Impedance=50 ohms

