

RoHS Compliant Product

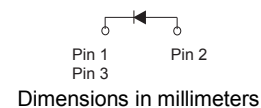
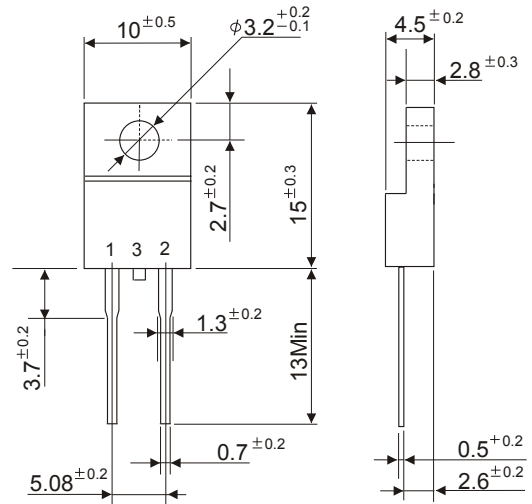
A suffix of "-C" specifies halogen-free

ITO-220A



Features

- * High Surge Capacity
- * Glass Passivated Chip Junctions
- * 150°C Operating Junction Temperature
- * Low Power Loss, High Efficiency
- * High-Switching Speed 25 Nanosecond Recovery Time
- * Low Forward Voltage, High Current Capability
- * Low Stored Charge Majority Carrier Conduction
- * Plastic Material Used Carries Underwriters Laboratory Flammability Classification 94V-0

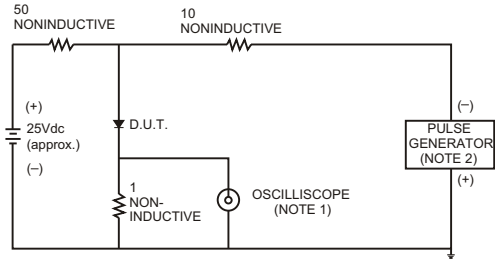


Maximum Ratings and Electrical Characteristics

Characteristic	Symbol	SF10L60U	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Working Peak Reverse Voltage	V_{RWM}		V
DC Blocking Voltage	V_R	480	V
Average Rectifier Forward Current	$I_{F(AV)}$	10	A
Non-Repetitive Peak Surge Current (Surge Applied At Rate Load Conditions Halfwave, Single Phase, 60Hz)	I_{FSM}	120	A
Operating Junction and Storage Temperature Range	T_j, T_{stg}	-65~+150	°C
Max. Instantaneous Forward Voltage ($I_F=10A, T_C=25^\circ C$)	V_F	2.5	V
Max. Instantaneous Reverse Current (Rated DC Voltage, $T_C=25^\circ C$)	I_R	10	uA
(Rated DC Voltage, $T_C=100^\circ C$)		500	
Reverse Recovery Time ($I_F=0.5A, I_R=1A, I_{RR}=0.25A$)	T_{RR}	25	nS
Typical Junction Capacitance (Reverse Voltage of 4V & $f=1MHz$)	C_P	70	pF
Thermal Resistance	$R_{th(j to c)}$	2.0	°C/W

RATING AND CHARACTERISTIC CURVES

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



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

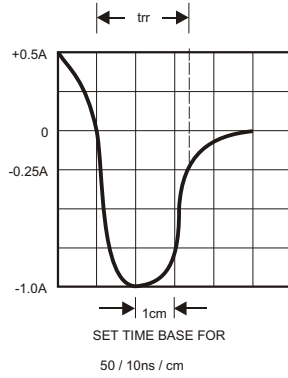


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

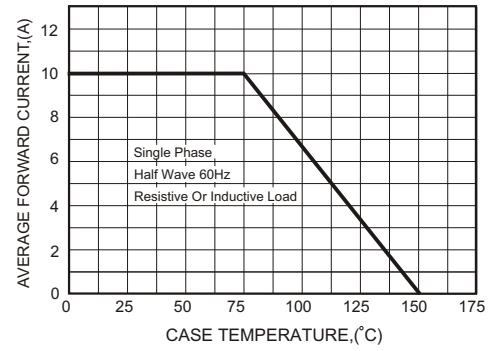


FIG.3-TYPICAL FORWARD CHARACTERISTICS

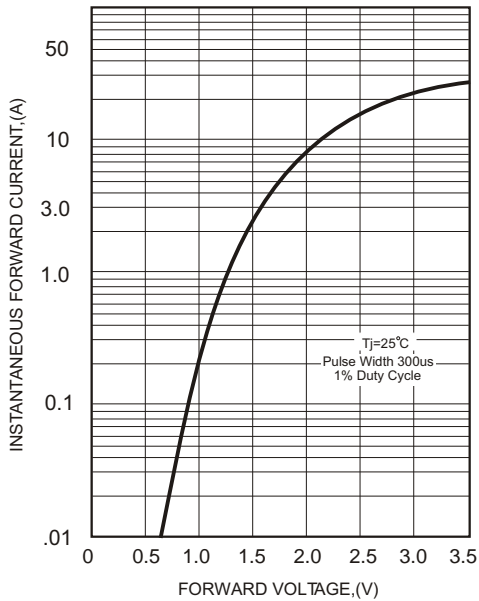


FIG.4-TYPICAL REVERSE CHARACTERISTICS

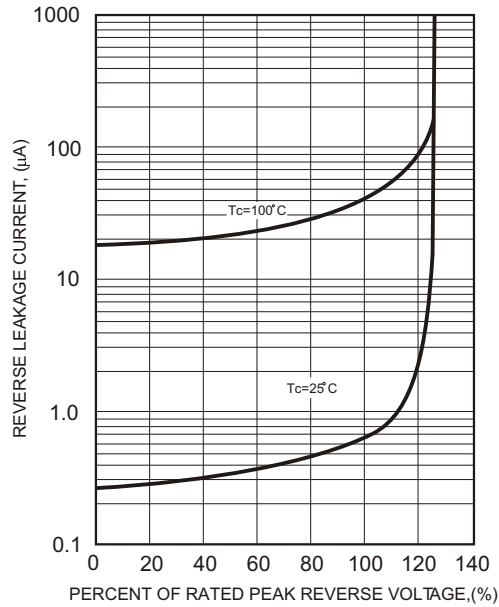


FIG.5-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

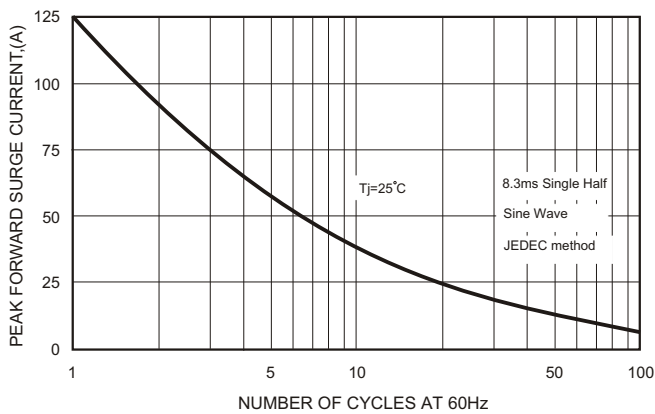


FIG.6-TYPICAL JUNCTION CAPACITANCE

