

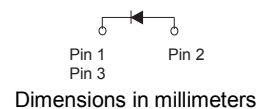
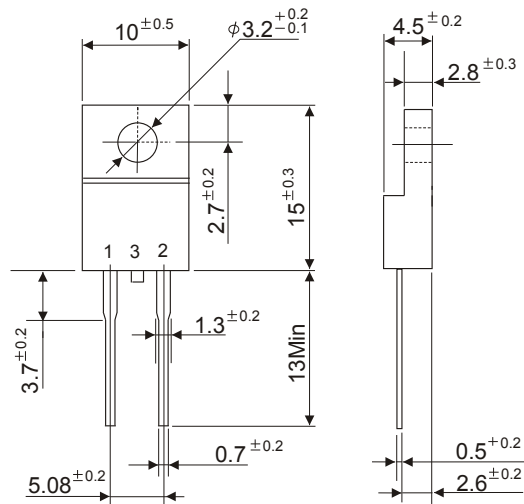
RoHS Compliant Product
A suffix of "-C" specifies halogen-free

ITO-220A



Features

- * High Surge Capacity
- * 150°C Operating Junction Temperature
- * Low Power Loss, High Efficiency
- * High-Switching Speed 80 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

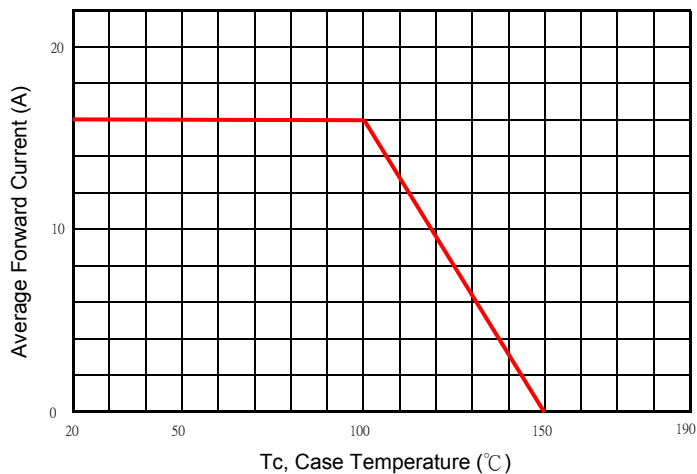


Maximum Ratings and Electrical Characteristics

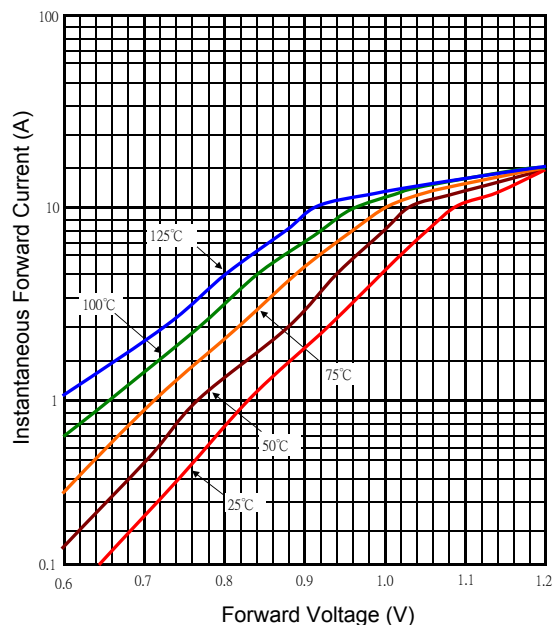
Characteristic	Symbol	SF16U60F	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R	480	V
Average Rectifier Forward Current	$I_{F(AV)}$	16	A
Non-Repetitive Peak Surge Current (Surge Applied At Rate Load Conditions Halfwave, Single Phase, 60Hz)	I_{FSM}	180	A
Operating Junction and Storage Temperature Range	T_j, T_{stg}	-65~+150	°C
Max. Instantaneous Forward Voltage ($I_F=16A, T_C=25^\circ C$)	V_F	1.3	V
Max. Instantaneous Reverse Current (Rated DC Voltage, $T_C=25^\circ C$)	I_R	1	uA
(Rated DC Voltage, $T_C=100^\circ C$)		50	
Reverse Recovery Time ($I_F=0.5A, I_R=1A, I_{RR}=0.25A$)	T_{RR}	80	nS
Typical Junction Capacitance (Reverse Voltage of 4V & $f=1MHz$)	C_P	120	pF
Thermal Resistance	$R_{th(j \text{ to } c)}$	3.5	°C/W

RATING AND CHARACTERISTIC CURVES

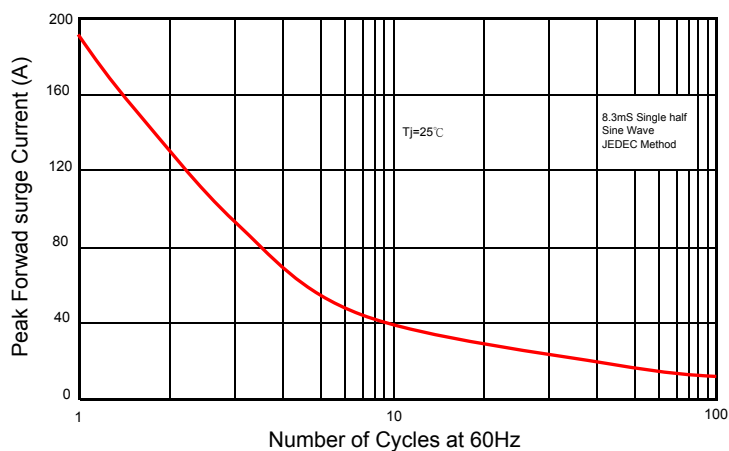
Typical Forward Current Derating Curve



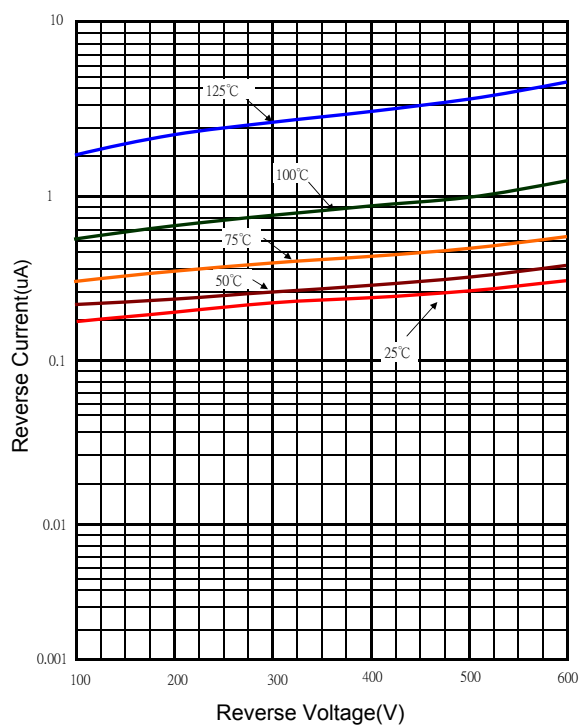
Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic



Typical Junction Capacitance

