

RoHS Compliant Product

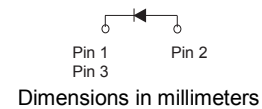
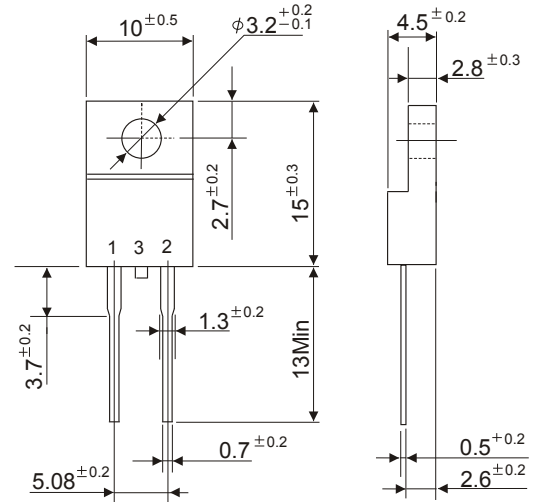
A suffix of "-C" specifies halogen-free

**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

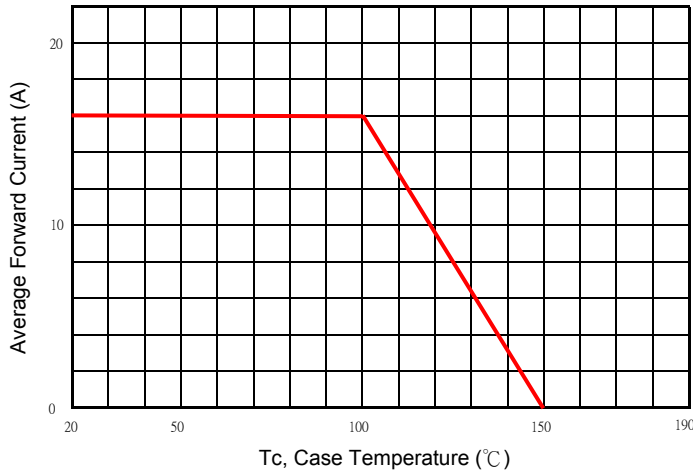


## Maximum Ratings and Electrical Characteristics

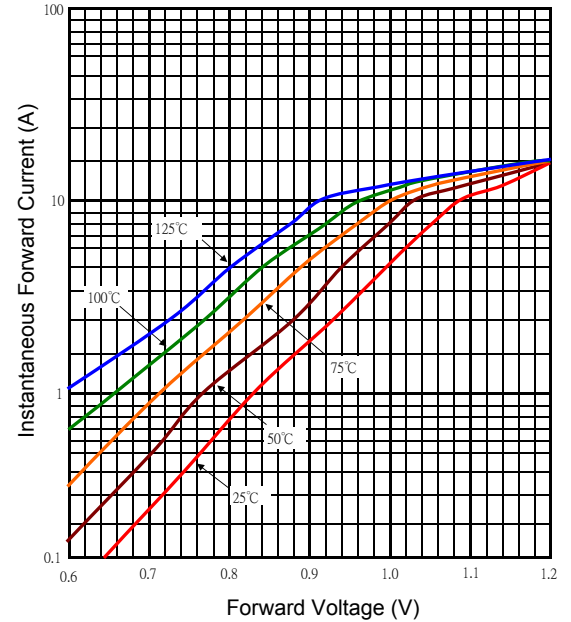
Characteristic	Symbol	SF16U60F	Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	600	V
Working Peak Reverse Voltage	$V_{RWM}$		V
DC Blocking Voltage	$V_R$	480	V
Average Rectifier Forward Current	$I_{F(AV)}$	16	A
Non-Repetitive Peak Surge Current (Surge Applied At Rate Load Conditions Halfwave, Single Phase, 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	$R_{th(j to c)}$	3.5	°C/W

RATING AND CHARACTERISTIC CURVES

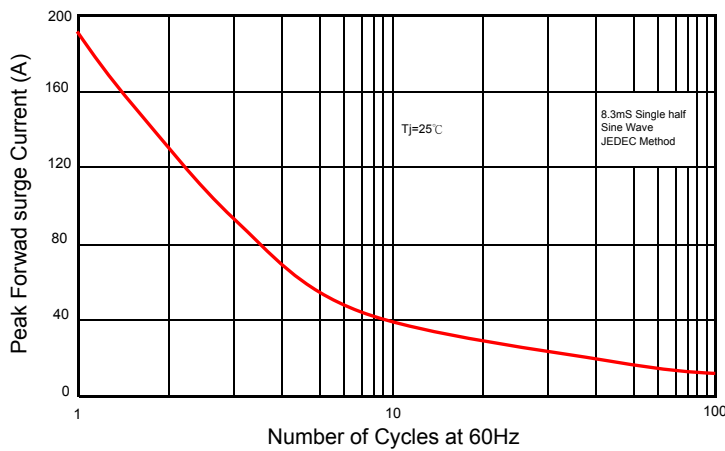
Typical Forward Current Derating Curve



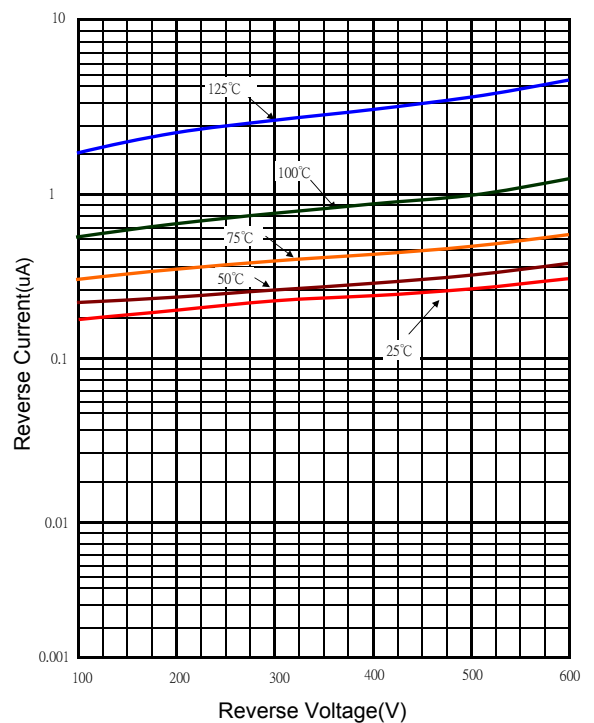
Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic



Typical Junction Capacitance

