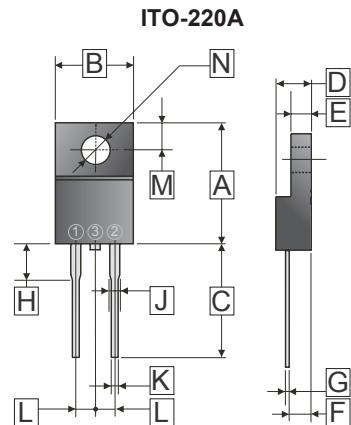


RoHS Compliant Product  
A suffix of "C" specifies halogen free

## FEATURES

- High Surge Capacity
- 150°C Operating Junction Temperature
- Low Power Loss, High Efficiency
- High-Switching Speed 50 Nanosecond Recovery Time
- Low Forward Voltage, High Current Capability
- Low Stored Charge Majority Carrier Conduction
- Plastic Material Used Carries Underwriters Laboratory Flammability Classification 94V-O



Dimensions in millimeters

## PACKAGING INFORMATION

Weight: 1.64 grams (approximate)



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.70	15.30	H	3.50	3.90
B	9.50	10.50	J	1.10	1.50
C	13.00	Min	K	0.50	0.90
D	4.30	4.70	L	2.44	2.64
E	2.50	3.10	M	2.50	2.90
F	2.40	2.80	N	Ø 3.1	Ø 3.4
G	0.30	0.70			

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	SF05U60F	UNITS
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	$I_{F(AV)}$	5	A
Non-Repetitive Peak Surge Current (Surge applied at rated load conditions half-wave, single phase, 60Hz)	$I_{FSM}$	60	A
Max. Instantaneous Forward Voltage ( $I_F = 5$ A, $T_C=25^\circ\text{C}$ )	$V_F$	1.5	V
Typical Forward Voltage ( $I_F = 5$ A, $T_C=25^\circ\text{C}$ )		1.2	
Max. Instantaneous Reverse Current (Rated DC Voltage, $T_C=25^\circ\text{C}$ ) (Rated DC Voltage, $T_C=125^\circ\text{C}$ )	$I_R$	10 500	$\mu\text{A}$
Max. Reverse Recovery Time ( $I_F = 0.5$ A, $V_R = 30$ V, $dI_F / dt = 100$ A / $\mu\text{s}$ ) Typical Reverse Recovery Time ( $I_F = 0.5$ A, $V_R = 30$ V, $dI_F / dt = 100$ A / $\mu\text{s}$ )	$T_{RR}$	70 50	nS
Typical Junction Capacitance (Reverse Voltage of 0V & f=1MHz)	$C_P$	70	pF
Thermal Resistance	$R_{\theta JC}$	4.0	$^\circ\text{C} / \text{W}$
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-65~+150	$^\circ\text{C}$

## RATINGS AND CHARACTERISTIC CURVES (SF05U60F)

