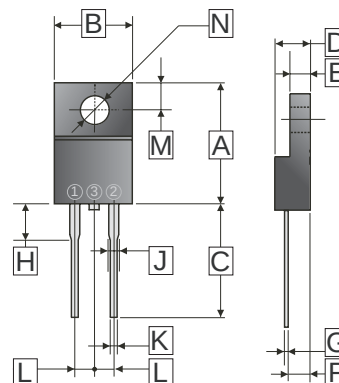


RoHS Compliant Product
A suffix of "-C" specifies halogen free

FEATURES

- High Surge Capacity
- 150°C Operating Junction Temperature
- Low Power Loss, High Efficiency
- High-Switching Speed 21 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

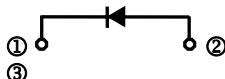
ITO-220A



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	φ 3.1	φ 3.4
G	0.30	0.70			

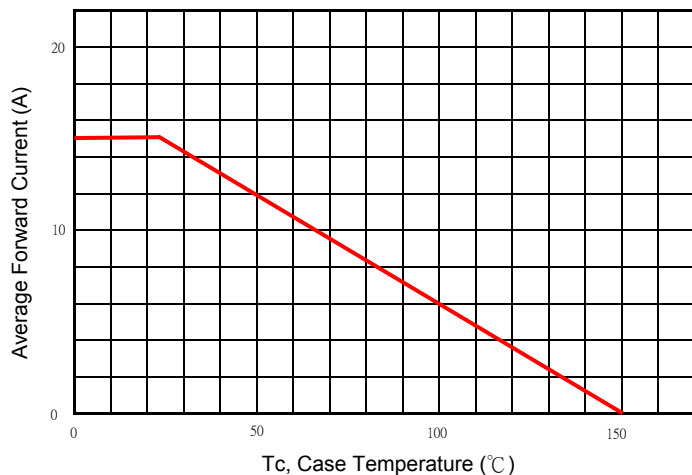
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	SYMBOL	SF15S60F	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	$I_{F(AV)}$	15	A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase, 60Hz)	I_{FSM}	150	A
Max. Instantaneous Forward Voltage ($I_F = 15\text{ A}$, $T_C = 25^\circ\text{C}$)	V_F	2.8	V
Typical Forward Voltage ($I_F = 15\text{ A}$, $T_C = 125^\circ\text{C}$)		1.4	
Max. Instantaneous Reverse Current Note 1 (Rated DC Voltage, $T_C = 25^\circ\text{C}$)	I_R	10	μA
(Rated DC Voltage, $T_C = 125^\circ\text{C}$)		500	
Max. Reverse Recovery Time	T_{RR}	30	nS
Typical Reverse Recovery Time		25	
Typical Junction Capacitance (Reverse Voltage of 0V & $f = 1\text{ MHz}$)	C_P	340	pF
Thermal Resistance	$R_{\theta JC}$	5.0	$^\circ\text{C} / \text{W}$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-65~+150	$^\circ\text{C}$

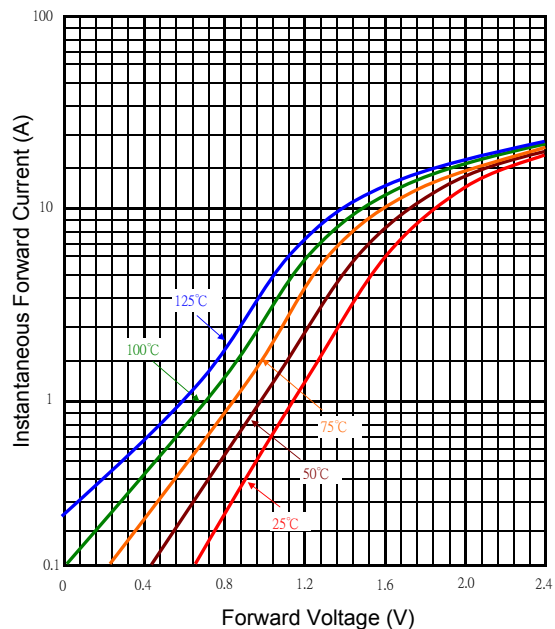
Note: 1 Pulse Test: Pulse width=300us, duty Cycle $\leq 2.0\%$
2. $I_F = 1\text{ A}$, $diF/dt = 100\text{ A/us}$, $V_{RR} = 30\text{ V}$ I_R perc.=10%

RATINGS AND CHARACTERISTIC CURVES (SF15S60F)

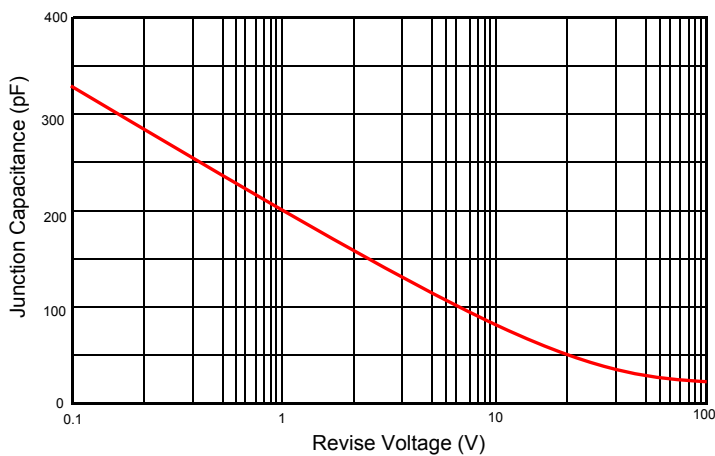
Typical Forward Current Derating Curve



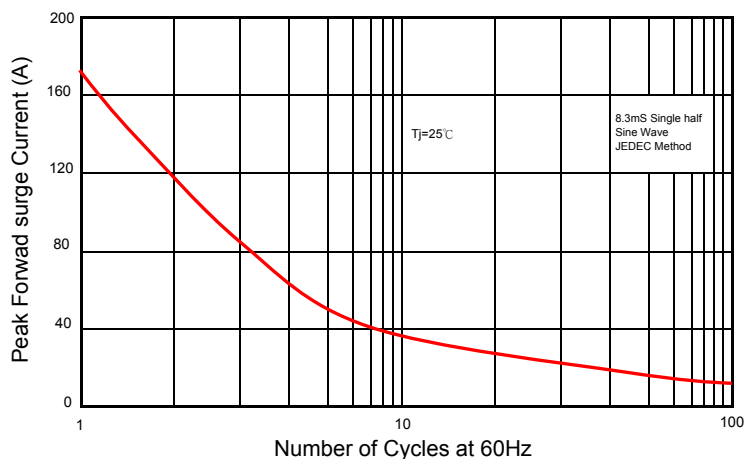
Typical Forward Characteristic



Typical Junction Capacitance



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic

