

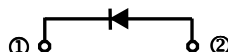
RoHS Compliant Product
A suffix of "-C" specifies halogen free

FEATURES

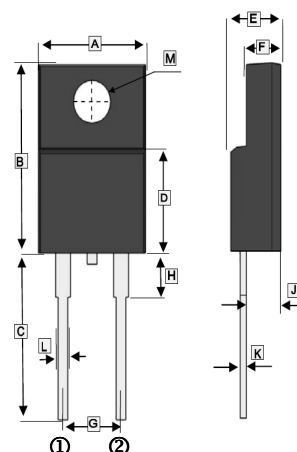
- High Surge Capacity
- 150°C Operating Junction Temperature
- Low Power Loss, High Efficiency
- High-Switching Speed 60 Nanosecond Recovery Time
- Low Forward Voltage, High Current Capability
- Low Stored Charge Majority Carrier Conduction
- Plastic Material Used Carries Underwriters Laboratory Flammability Classification 94V-O

PACKAGING INFORMATION

Weight: 1.64 grams (approximate)



ITO-220A



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	9.50	10.70	G	3.60	5.90
B	14.40	15.90	H	3.45	4.50
C	12.70	14.20	J	2.10	3.20
D	8.40TYP		K	0.40	0.80
E	4.20	5.10	L	0.30	0.90
F	2.50	3.56	M	φ 2.60	φ 3.80

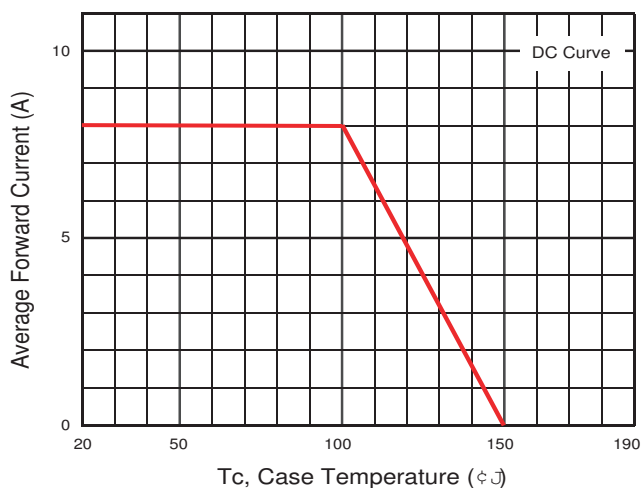
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, de-rate current by 20%.)

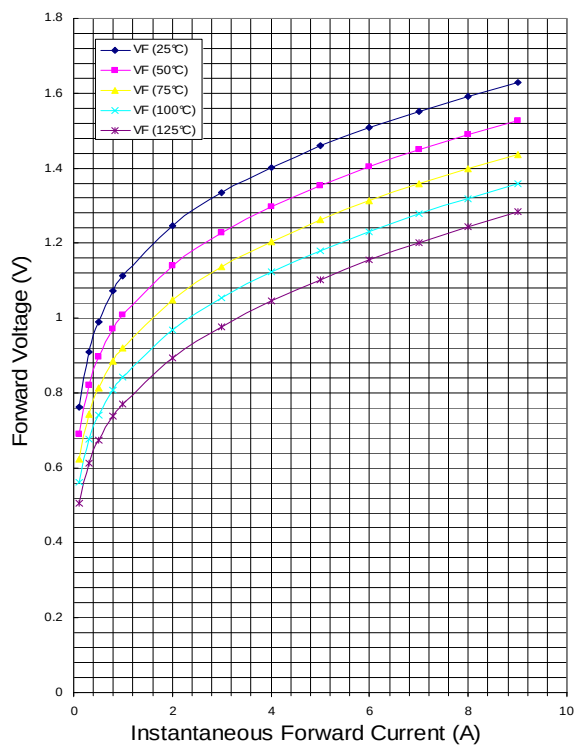
CHARACTERISTICS		SYMBOL	SF08U60F	UNITS
Peak Repetitive Reverse Voltage		V_{RRM}	600	V
Working Peak Reverse Voltage		V_{RWM}		V
DC Blocking Voltage		V_R	480	V
Average Rectifier Forward Current		$I_{F(AV)}$	8	A
Non-Repetitive Peak Surge Current (Surge applied at rate load conditions half-wave, single phase, 60Hz)		I_{FSM}	120	A
Max. Instantaneous Forward Voltage ($I_F = 8\text{ A}$, $T_C = 25^\circ\text{C}$)		V_F	1.6	V
Max. Instantaneous Reverse Current (Rated DC Voltage)	$T_C = 25^\circ\text{C}$	I_R	5	μA
	$T_C = 100^\circ\text{C}$		500	
Reverse Recovery Time ($I_F = 0.5\text{ A}$, $V_R = 30\text{ V}$, $dI_F / dt = 100\text{ A} / \mu\text{s}$)		T_{RR}	50	nS
Typical Junction Capacitance (Reverse Voltage of 4V & $f = 1\text{ MHz}$)		C_P	70	pF
Typical 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 (SF08U60F)

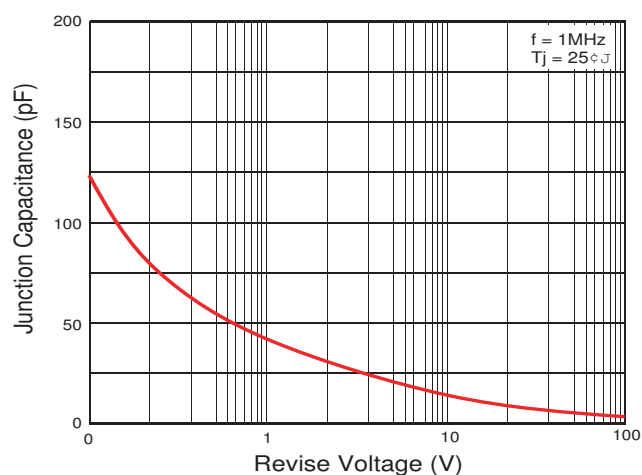
Typical Forward Current Derating Curve



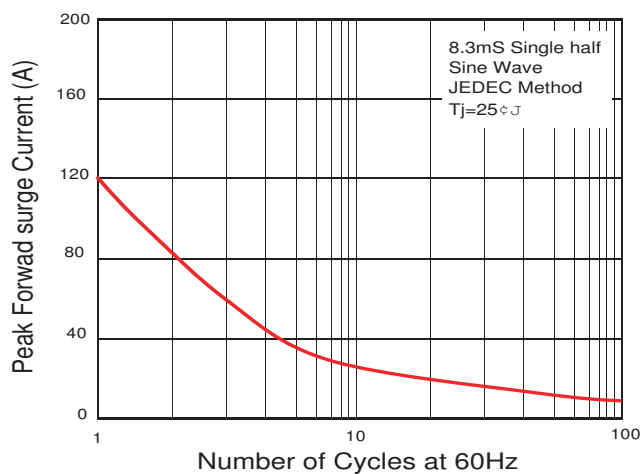
Typical Forward Characteristic



Typical Junction Capacitance



Maximum Non- Repetitive Forward Surge Current



Typic Reverse Curve

