

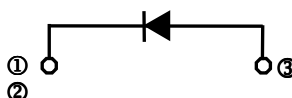
RoHS Compliant Product
A suffix of "-C" specifies halogen free

FEATURES

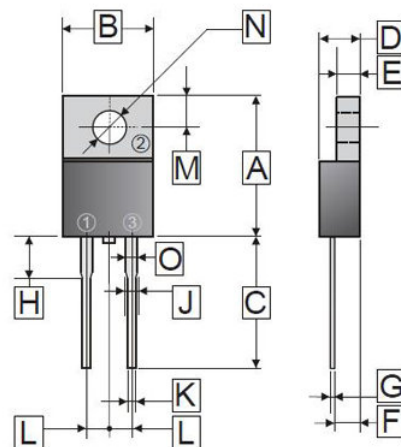
- High Surge Capacity
- 150°C Operating Junction Temperature
- Low Power Loss, High Efficiency
- High-Switching Speed 60 Nanosecond Recovery Time
- Low Forward Voltage, High Current Capability
- Low Stored Charge Majority Carrier Conduction
- Plastic Material used Carries Underwriters Laboratory Flammability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

ORDER INFORMATION

Part Number	Type
SF08U60	Lead (Pb)-free
SF08U60-C	Lead (Pb)-free and Halogen-free



TO-220A



REF.	Min.	Max.	REF.	Min.	Max.
A	14.68	15.50	H	3.57	4.20
B	9.7	10.4	J	-	1.30
C	13.06	14.62	K	0.72	0.96
D	4.22	4.98	L	4.84	5.32
E	1.14	1.38	M	2.48	2.98
F	2.20	2.98	N	φ 3.7	φ 3.9
G	0.27	0.55	O	1.12	1.37

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

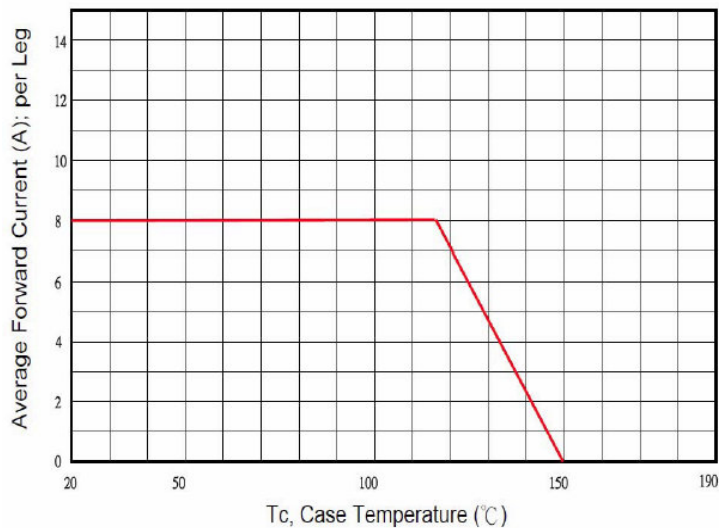
Parameter	Symbol	Ratings	Unit
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Working Peak Reverse Voltage	V_{RWM}	600	V
DC Blocking Voltage	V_R	480	V
Average Rectifier Forward Current	$I_{F(AV)}$	8	A
Non-Repetitive Peak Surge Current ¹	I_{FSM}	120	A
Maximum Instantaneous Forward Voltage ($I_F=8A$, $T_C=25^\circ C$)	V_F	1.6	V
Maximum Instantaneous Reverse Current	$T_C=25^\circ C$	5	μA
	$T_C=100^\circ C$	500	
Reverse Recovery Time ²	T_{RR}	50	nS
Typical Junction Capacitance ³	C_P	70	pF
Thermal Resistance	$R_{\theta JC}$	2.5	$^\circ C/W$
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-65~+150	$^\circ C$

Notes:

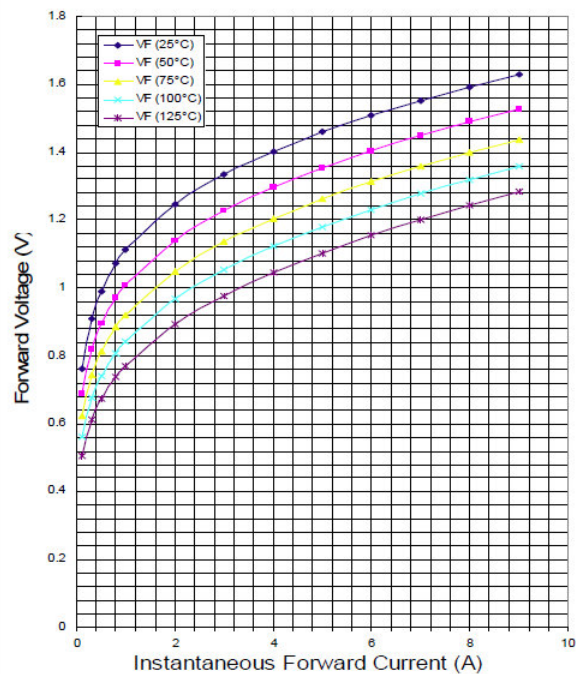
1. Surge applied at rate load conditions half-wave, single phase, 60Hz.
2. $I_F=0.5A$, $V_R=30V$, $dI_F/dt=100A/\mu s$.
3. Reverse Voltage of 4V, $f=1MHz$.

RATINGS AND CHARACTERISTIC CURVES

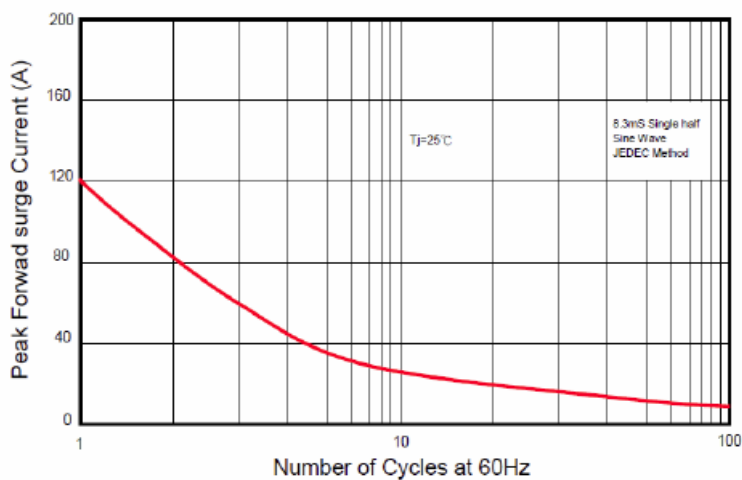
Typical Forward Current Derating Curve



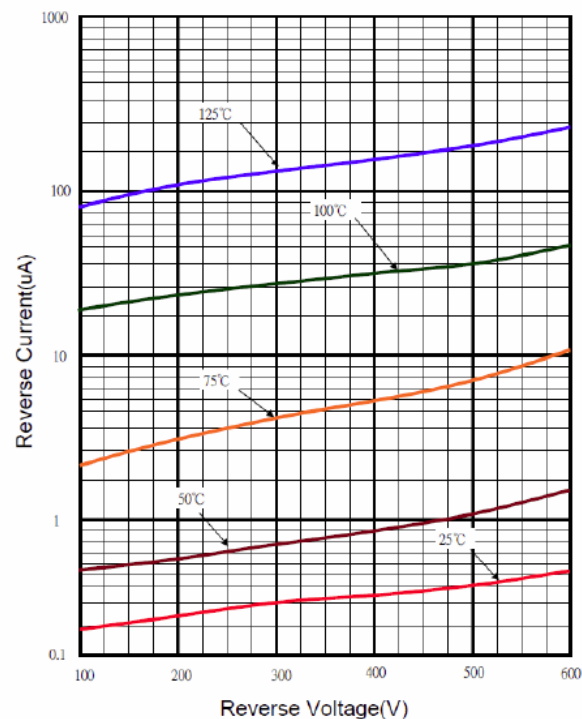
Typical Forward Characteristic



Maximum Non- Repetitive Forward Surge Current



Typical Reverse Characteristic



Typical Junction Capacitance

