

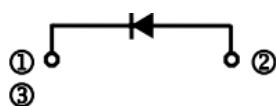
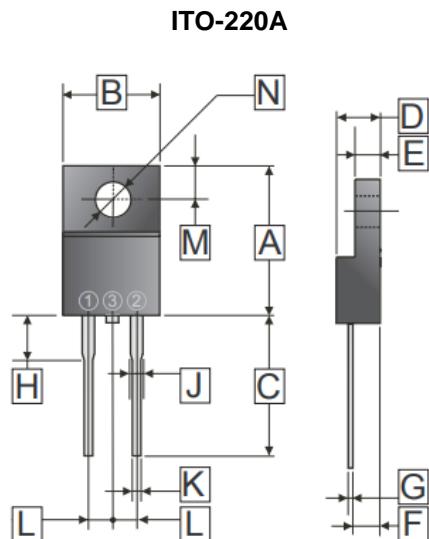
RoHS Compliant Product
A suffix of "-C" specifies halogen free

FEATURES

- Soft Reverse Recovery Diodes
- 150°C Operating Junction Temperature
- Fast Switching for High Efficiency
- Low Forward Voltage, High Current Capability
- Plastic Material Used Carries Underwriters Laboratory Flammability Classification 94V-0

ORDER INFORMATION

Part Number	Type
SFL1660F	Lead (Pb)-free
SFL1660F-C	Lead (Pb)-free and Halogen-free



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.40	15.90	H	3.45	5.30
B	9.50	10.70	J	1.6 TYP.	
C	12.40	14.30	K	0.30	0.90
D	4.20	5.10	L	2.54 TYP.	
E	2.50	3.65	M	2.15	3.25
F	2.10	3.20	N	Ø 2.6	Ø 3.56
G	0.30	0.80			

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

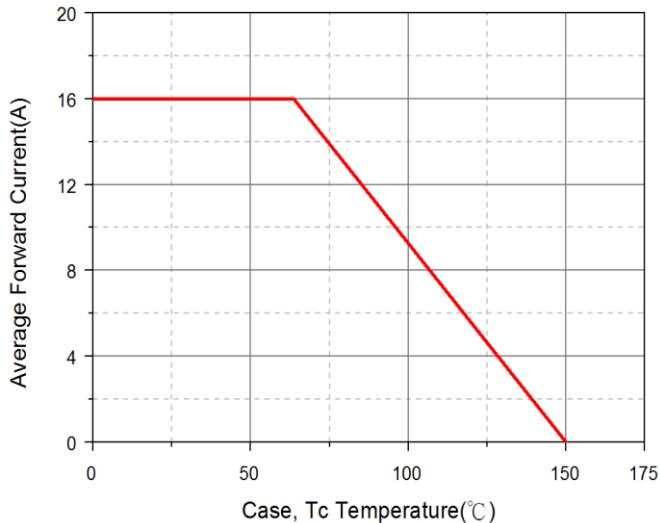
Parameter	Symbol	Rating	Unit
Peak Repetitive Reverse Voltage	V _{RRM}	600	V
Working Peak Reverse Voltage	V _{RWM}	600	V
DC Blocking Voltage	V _R	600	V
Average Rectifier Forward Current	I _{F(AV)}	16	A
Non-Repetitive Peak Surge Current @Surge applied at rate load conditions half-wave, single phase, 60Hz	I _{FSM}	120	A
Max. Instantaneous Forward Voltage @I _F =16A	T _A =25°C	V _F	1.35
	T _A =125°C	V _F	1.3
Max. Instantaneous Reverse Current ²	T _A =25°C	I _R	0.1
	T _A =125°C	I _R	1
Reverse Recovery Time ³	T _{RR}	100	nS
Typical Junction Capacitance ¹	C _J	82	pF
Thermal Resistance	R _{θJC}	4	°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	150, -55~150	°C

Notes:

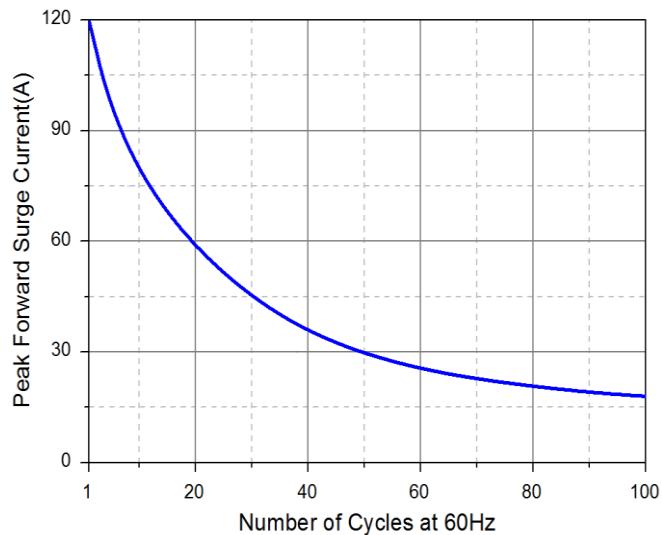
1. Measured at 1MHz and applied reverse voltage of 4V D.C.
2. Pulse Test: Pulse Width=300μs, Duty Cycle≤2%.
3. I_F=0.5A, I_R=1A, I_{RR}=0.25A.

RATINGS AND CHARACTERISTIC CURVES

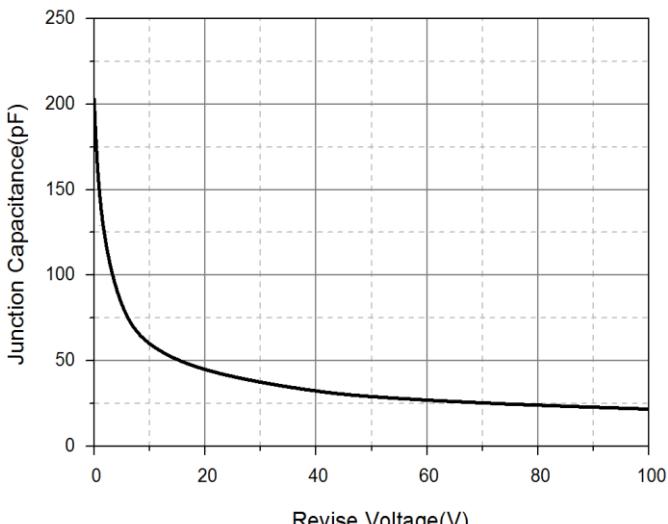
Typical Forward Current Derating Curve



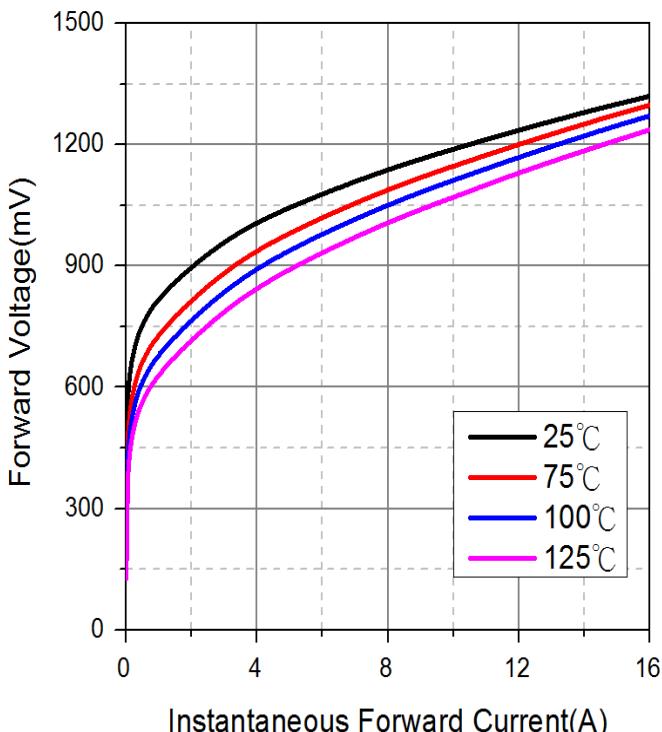
Maximum Non-Repetitive Forward Surge Current



Typical Junction Capacitance



Typical Forward Characteristic



Typical Reverse Characteristic

