

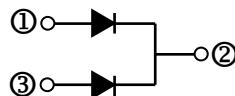
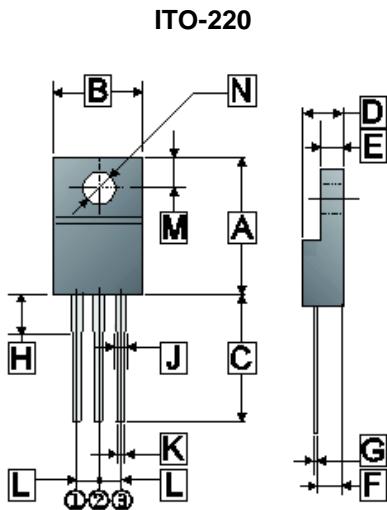
RoHS Compliant Product
A suffix of "-C" specifies halogen free

FEATURES

- Soft Reverse Recovery Diodes
- 150°C Operating Junction Temperature
- Low Power Loss, High Efficiency
- Low Forward Voltage, High Current Capability
- Low Stored Charge Majority Carrier Conduction
- Plastic Material Used Carries Underwriters Laboratory Flammability Classification 94V-0

ORDER INFORMATION

Part Number	Type
SFL10D60F	Lead (Pb)-free
SFL10D60F-C	Lead (Pb)-free and Halogen-free



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.50	16.50	H	2.70	4.35
B	9.50	10.72	J	0.90	1.70
C	12.60	14.22	K	0.30	0.95
D	4.20	5.10	L	2.34	2.75
E	2.30	3.30	M	2.40	3.60
F	2.30	3.10	N	Ø 3.0	Ø 3.8
G	0.30	0.75			

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%).)

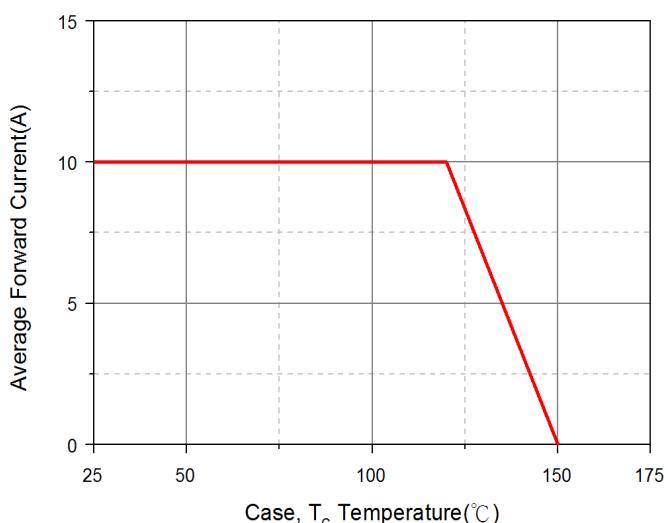
Characteristics	Symbol	Rating	Units
Peak Repetitive Reverse Voltage	V_{RRM}	600	V
Working Peak Reverse Voltage	V_{RWM}	600	V
DC Blocking Voltage	V_R	600	V
Average Rectifier Forward Current	Per Leg	5	A
	Per Device	10	A
Non-Repetitive Peak Surge Current @ Surge applied at rate load conditions half-wave, single phase, 60Hz	I_{FSM}	50	A
Max. Instantaneous Forward Voltage @ $I_F=5A$	$T_{J}=25^{\circ}C$	1.35	V
	$T_{J}=125^{\circ}C$	1.3	
Max. Instantaneous Reverse Current ¹	$T_{J}=25^{\circ}C$	0.1	mA
	$T_{J}=125^{\circ}C$	1	
Max. Reverse Recovery Time ²	T_{RR}	100	nS
Typical Junction Capacitance ³	C_J	14	pF
Typical Thermal Resistance	$R_{\theta JC}$	4	°C/W
Operating Junction and Storage Temperature Range	T_J, T_{STG}	150, -55~150	°C

Notes:

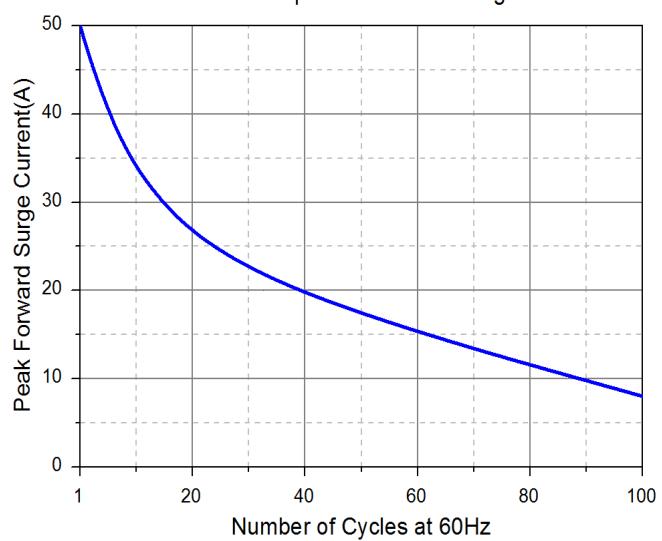
1. Pulse Test: Pulse Width=300µs, Duty Cycle≤2%.
2. $I_F=0.5A$, $I_R=1A$, $I_{RR}=0.25A$.
3. Measured at 1MHz and applied reverse voltage of 5V D.C.

RATINGS AND CHARACTERISTIC CURVES

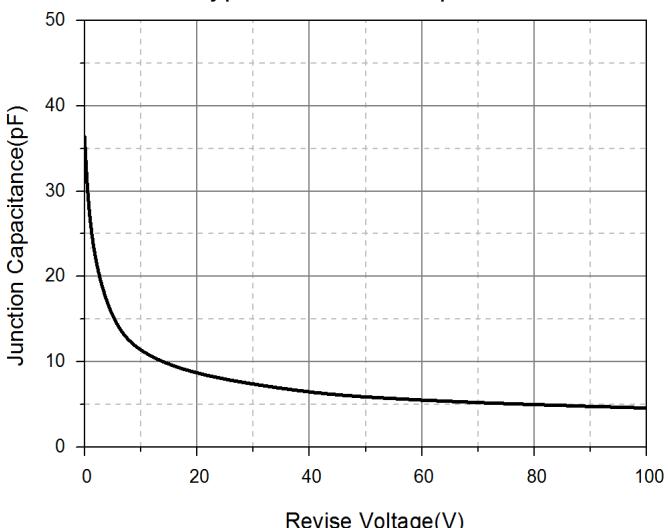
Typical Forward Current Derating Curve



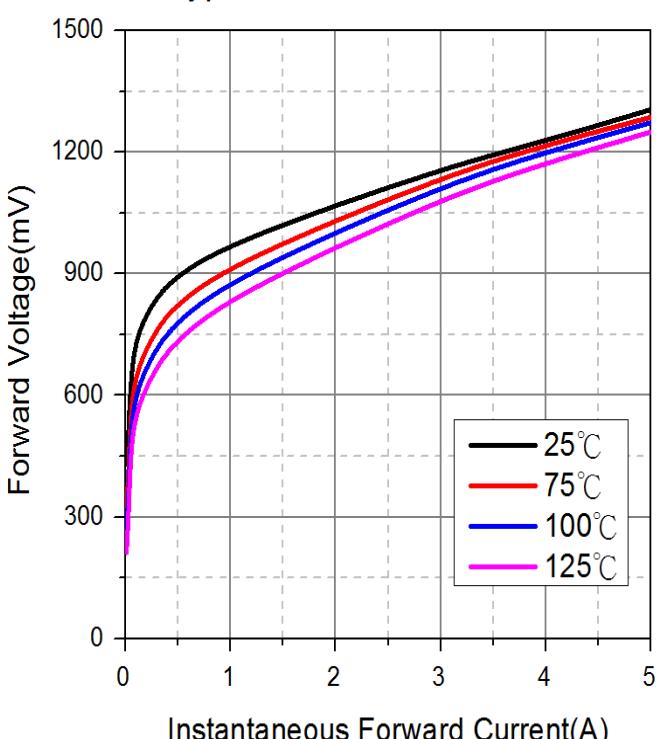
Maximum Non-Repetitive Forward Surge Current



Typical Junction Capacitance



Typical Forward Characteristic



Typical Reverse Characteristic

