

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

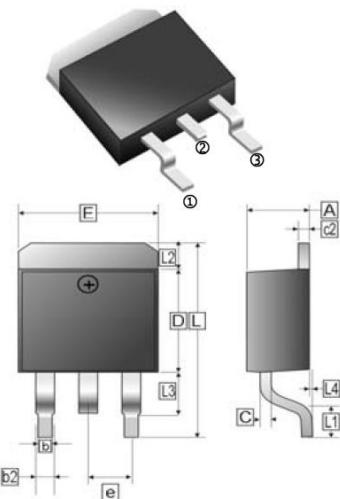
FEATURES

- 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

PACKAGE INFORMATION

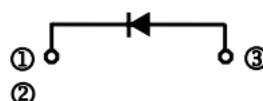
Package	MPQ	Leader Size
TO-263	0.8K	13 inch

TO-263



ORDER INFORMATION

Part Number	Type
SFL1060DS	Lead (Pb)-free
SFL1060DS-C	Lead (Pb)-free and Halogen-free



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.00	4.87	c2	1.07	1.65
b	0.51	1.01	b2	1.34	REF
L4	0.00	0.30	D	8.0	9.65
C	0.30	0.74	e	2.54	REF
L3	1.50	REF	L	14.6	16.1
L1	2.5	REF	L2	1.27	REF
E	9.60	10.67			

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%).

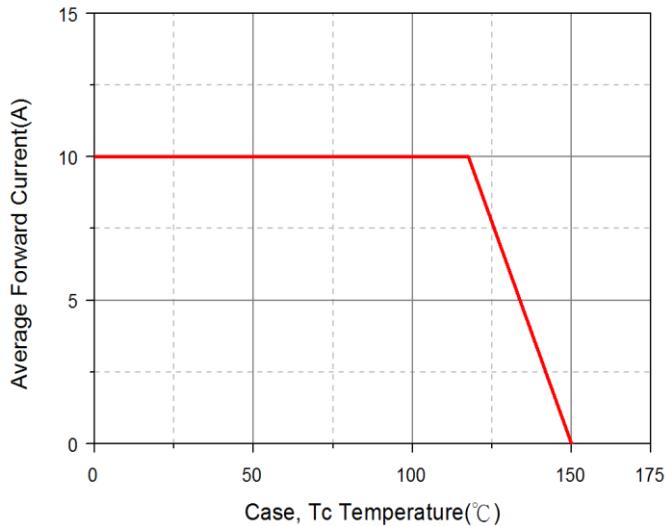
Parameter	Symbol	Rating		Unit
Peak Repetitive Reverse Voltage	V _{RRM}	600		V
Working Peak Reverse Voltage	V _{RWM}	600		V
DC Blocking Voltage	V _R	600		V
Average Rectifier Forward Current	I _{F(AV)}	10		A
Non-Repetitive Peak Surge Current @Surge applied at rate load conditions half-wave, single phase, 60Hz	I _{FSM}	100		A
Max. Instantaneous Forward Voltage @I _F =10A	T _A =25°C	V _F	1.35	V
	T _A =125°C		1.25	
Max. Instantaneous Reverse Current ²	T _A =25°C	I _R	0.1	mA
	T _A =125°C		1	
Reverse Recovery Time ³	T _{RR}	100		nS
Typical Junction Capacitance ¹	C _J	33		pF
Thermal Resistance from Junction to Case ⁴	R _{θJC}	2.4		°C/W
Operating Junction and Storage Temperature Range	T _J , T _{STG}	150, -55~150		°C

Notes:

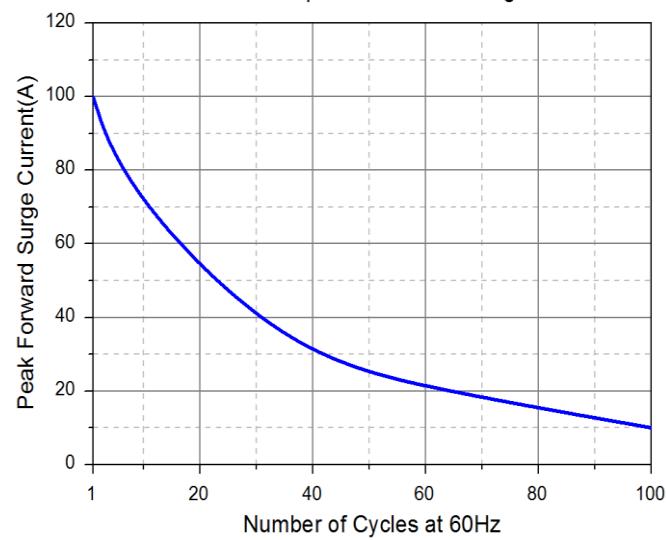
1. Measured at 1MHz and applied reverse voltage of 5V D.C.
2. Pulse Test: Pulse Width=300μs, Duty Cycle≤2%.
3. I_F=0.5A, I_R=1A, I_{RR}=0.25A.
4. Surface mounted on 10cm x 10cm x 0.5mm copper pad area.

RATINGS AND CHARACTERISTIC CURVES

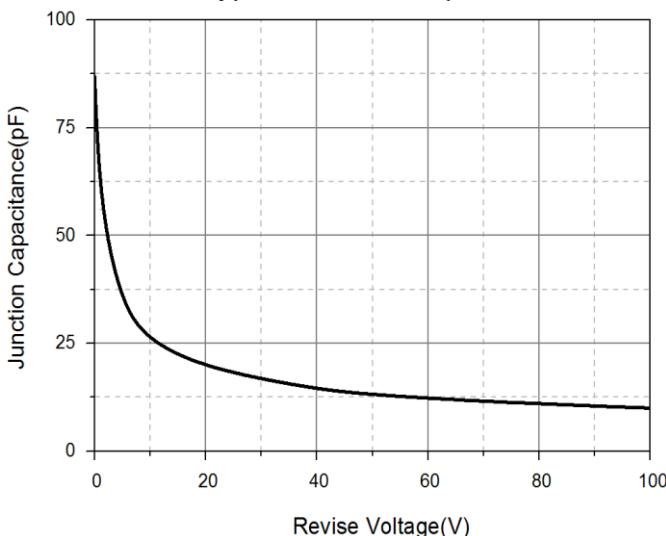
Typical Forward Current Derating Curve



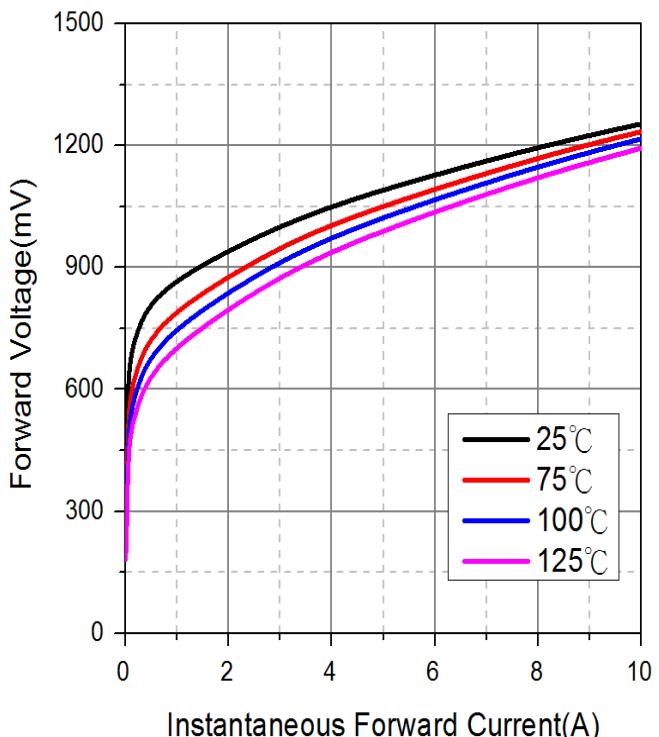
Maximum Non-Repetitive Forward Surge Current



Typical Junction Capacitance



Typical Forward Characteristic



Typical Reverse Characteristic

