

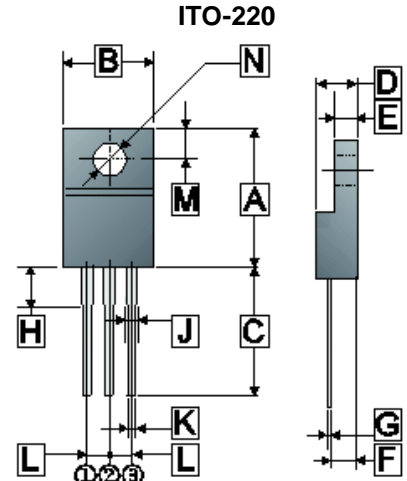
RoHS Compliant Product
A suffix of "-C" specifies halogen free

FEATURES

- Ultra Low Forward Voltage Drop
- Excellent High Temperature Stability
- Trench Barrier Schottky Technology
- Fast Switching Capability
- High Reliability
- High Surge Current Capability
- Epitaxial Construction

MECHANICAL DATA

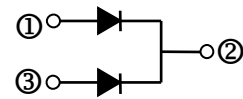
- Case: ITO-220
- Case Material: Molded Plastic, UL Flammability Classification Rating 94V-0
- Epoxy: UL94V-0 Rate Flame Retardant
- Terminals: Matte Tin Finish annealed over Copper Leadframe Solderable per MIL-STD-202, Method 208
- Polarity: As Marked
- Mounting position: Any



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	14.50	16.50	H	1.80	4.35
B	9.50	10.72	J	0.80	1.70
C	12.58	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	∅ 3.0	∅ 3.8
G	0.30	0.75			

ORDER INFORMATION

Part Number	Type
SBL10U150F	Lead (Pb)-free
SBL10U150F-C	Lead (Pb)-free and Halogen-free



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

Parameter	Symbol	Rating	Unit
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	150	V
Working Peak Reverse Voltage	V _{RSM}	150	
Maximum DC Blocking Voltage	V _{DC}	150	
Maximum Average Forward Rectified Current	(Per Leg)	5	A
	(Per Device)	10	
Peak Forward Surge Current, 8.3 ms single half sine-wave Superimposed on rated load (JEDEC method)	I _{FSM}	80	A
Typical Thermal Resistance	R _{θJC}	4	°C/W
Operating and Storage Temperature Range	T _J , T _{STG}	-40~150	°C

ELECTRICAL CHARACTERISTICS

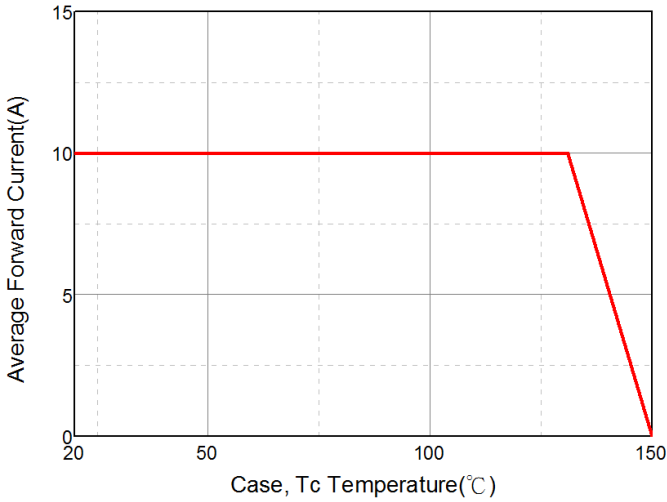
Parameter	Symbol	Typ.	Max.	Unit	Test Condition
Instantaneous Forward Voltage	V _F	0.75	-	V	I _F =3A, T _J =25°C
		0.82	0.95		I _F =5A, T _J =25°C
		0.66	-		I _F =5A, T _J =125°C
Maximum DC Reverse Current at Rated DC Blocking Voltage ¹	I _R	0.4	-	uA	V _R =100V, T _J =25°C
		-	30		V _R =150V, T _J =25°C
		1	15		V _R =150V, T _J =125°C
Junction Capacitance ²	C _J	125	-	pF	

Notes:

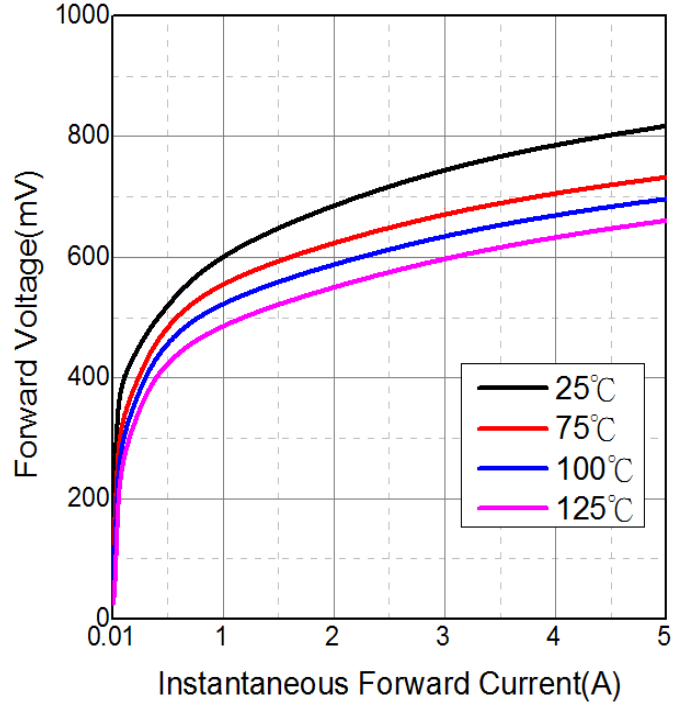
1. Pulse Test: Pulse Width=300us, Duty Cycle≤2.0%.
2. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

RATINGS AND CHARACTERISTIC CURVES

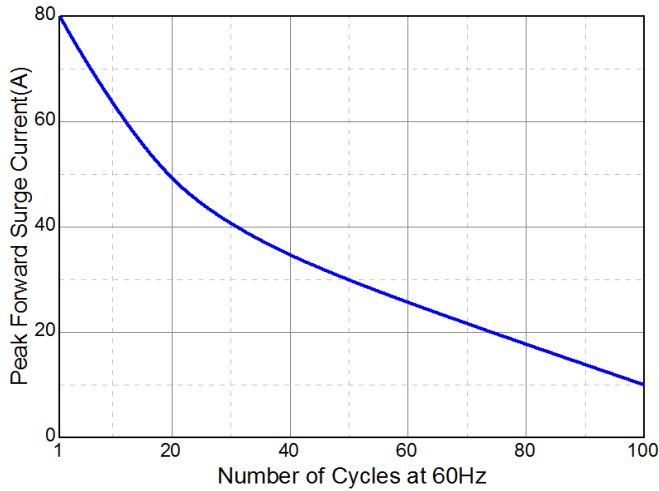
Typical Forward Current Derating Curve



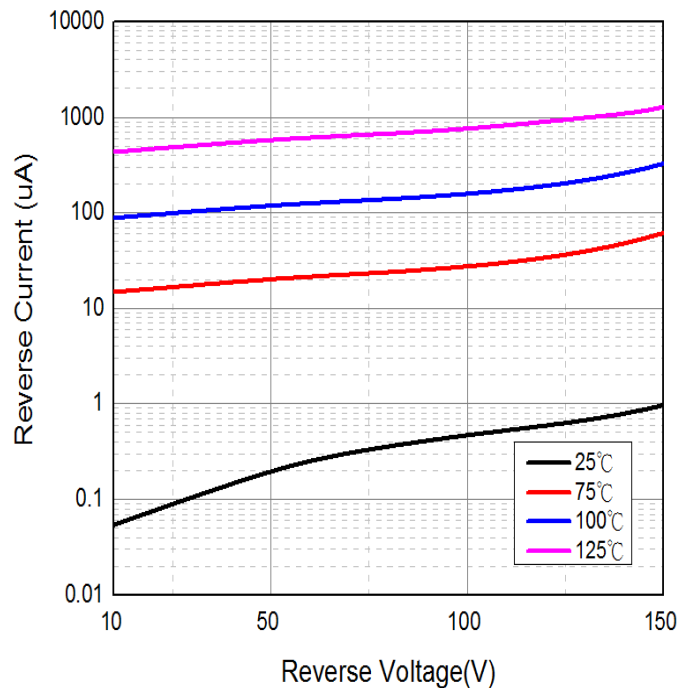
Typical Forward Characteristic



Maximum Non-Repetitive Forward Surge Current



Typical Reverse Characteristic



Typical Junction Capacitance

