

SBL1030CT - SBL1060CT

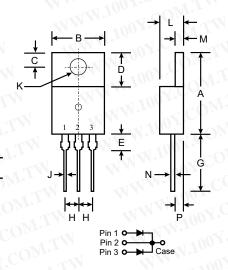
10A SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring Die Construction for
- Transient Protection
- Low Power Loss, High Efficiency
- High Surge Capability
- High Current Capability and Low Forward
 - Voltage Drop
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity
 - Protection Applications
 - Plastic Material: UL Flammability
 - Classification Rating 94V-0

Mechanical Data

- Case: Molded Plastic
 - Terminals: Plated Leads Solderable per
 - MIL-STD-202, Method 208
- Polarity: As Marked on Body
- Marking: Type Number
 - Weight: 2.24 grams (approx.)
- Mounting Position: Any



TO-220AB								
Dim	Min	Max						
A	14.22	15.88						
В	9.65	10.67						
C	2.54	3.43						
D	5.84	6.86						
E		6.35						
G	12.70	14.73						
Н	2.29	2.79						
J	0.51	1.14						
K	3.53 □	4.09 🗆						
L	3.56	4.83						
M	1.14	1.40						
N	0.30	0.64						
P	2.03	2.92						
All Di	nensions i	n mm						

Maximum Ratings and Electrical Characteristics

a T_A = 25 \square C unless otherwise specified

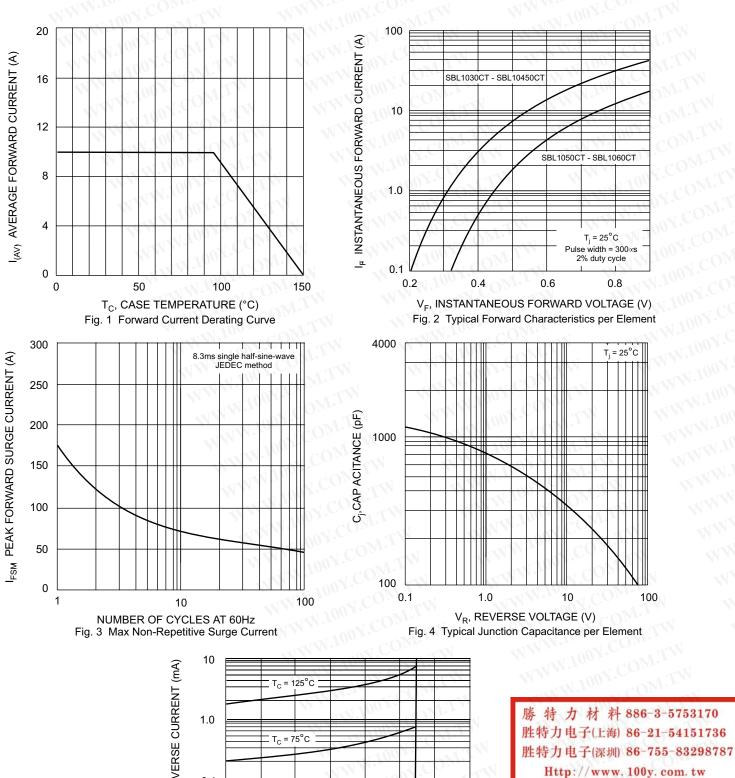
Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

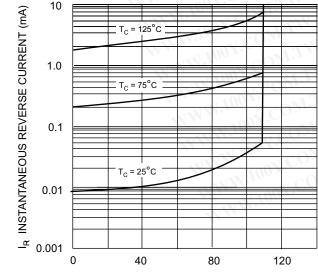
Characteristic		SBL 1030CT	SBL 1035CT	SBL 1040CT	SBL 1045CT	SBL 1050CT	SBL 1060CT	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		30	35	N 40	45	50	60	V
RMS Reverse Voltage		21	24.5	28	31.5	35	42	V
Average Rectified Output Current		100X-COMIN 10 MM M100X-1					100 Y.C.	A
Non-Repetitive Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		W.100X.COM.TW 175 WWW.100X					100X	A
Forward Voltage Drop		0.55 0.70				70	v (
Peak Reverse Current @ T $_{\text{C}}$ = 25 \square C at Rated DC Blocking Voltage @ T $_{\text{C}}$ = 125 \square C		0.5 50				W.100	mA	
Typical Junction Capacitance (Note 2)		W.W.	100 -	4	50	- 11	MAIN	pF
Typical Thermal Resistance Junction to Case (Note 1)		M A.	1 100 J.	5	.5			°C/W
Operating and Storage Temperature Range		MINA	1007	-65 to	+150			I.C
	•			17.919				•

Notes:

- 1. Thermal resistance junction to case mounted on heatsink.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

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PERCENT OF RATED PEAK REVERSE VOLTAGE (%) Fig. 5 Typical Reverse Characteristics