

M·C·C·

Micro Commercial Components
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**SBL3030CT
THRU
SBL3045CT**

Features

- Metal of Silicon Rectifier, Majority Carrier Conduction
- Guard ring for transient protection
- Low power loss, high efficiency
- High Current Capability, High low VF
- High surge capacity

Maximum Ratings

- Operating Temperature: -55°C to +125 °C
- Storage Temperature: -55°C to +150°C

MCC Catalog Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SBL3030CT	30V	21V	30V
SBL3040CT	40V	28V	40V
SBL3045CT	45V	31.5 V	45V

Electrical Characteristics @ 25°C Unless Otherwise Specified

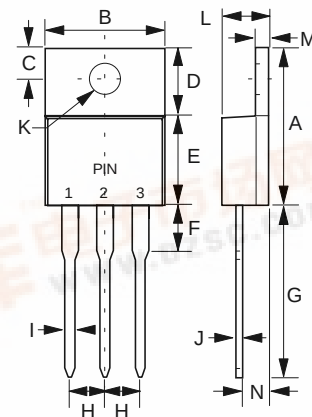
Average Forward Current	$I_{F(AV)}$	30 A	$T_C = 100^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	250A	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	.55V	$I_{FM} = 15\text{ A};$ $T_J = 25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	1.0mA 75mA	$T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$

*Pulse Test: Pulse Width 300μsec, Duty Cycle 1%

** Used With Heat Sink Together

**30 Amp
Schottky
Barrier Rectifier
30 to 45 Volts**

TO-220AB



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.560	.625	14.22	15.88	
B	.380	.420	9.65	10.67	
C	.100	.135	2.54	3.43	
D	.230	.270	5.84	6.86	
E	.380	.420	9.65	10.67	
F	---	.250	---	6.35	
G	.500	.580	12.70	14.73	
H	.090	.110	2.29	2.79	
I	.020	.045	0.51	1.14	
J	.012	.025	0.30	0.64	
K	.139	.161	3.53	4.09	Ø
L	.140	.190	3.56	4.83	
M	.045	.055	1.14	1.40	
N	.080	.115	2.03	2.92	



RATING AND CHARACTERISTIC CURVES SBL3030CT thru SBL3045CT

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FIG.1 - FORWARD CURRENT DERATING CURVE

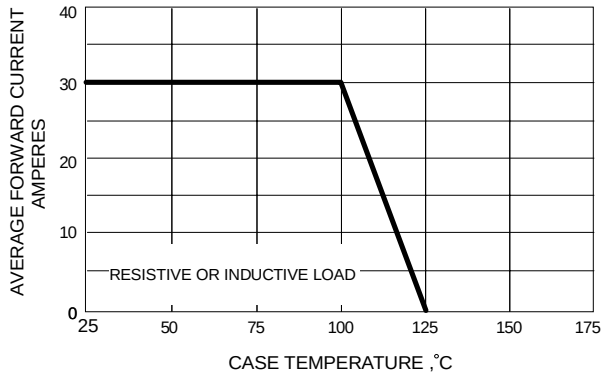


FIG.2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

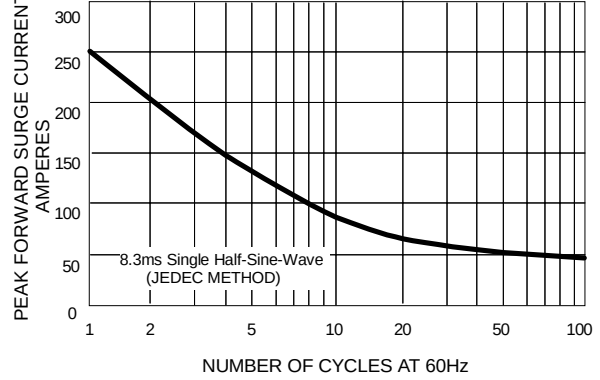


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

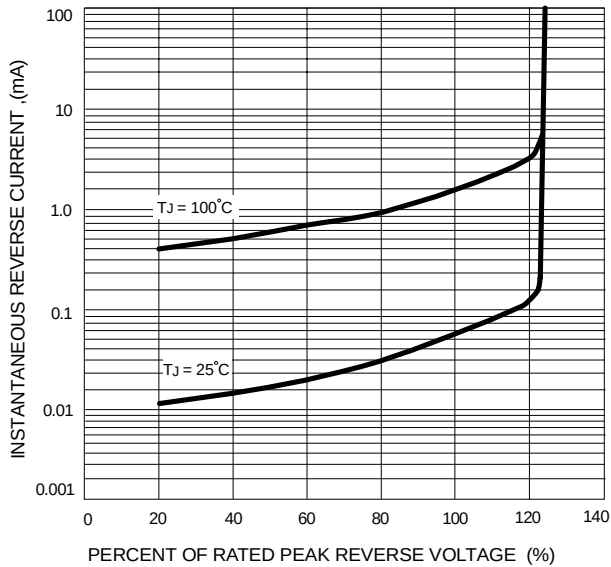


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

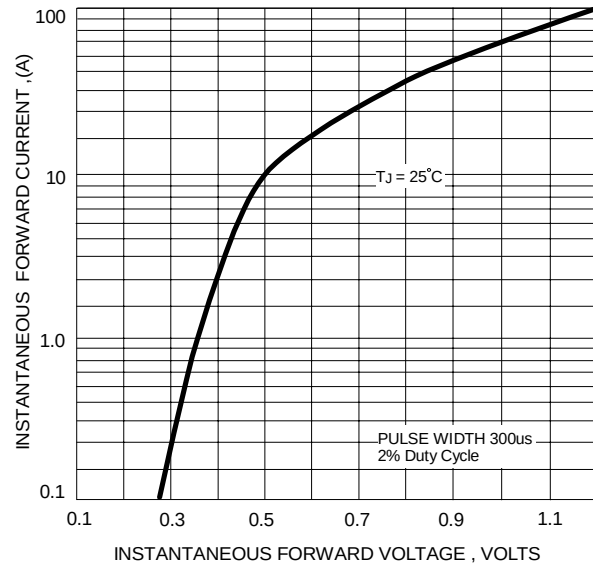


FIG.5 - TYPICAL JUNCTION CAPACITANCE

