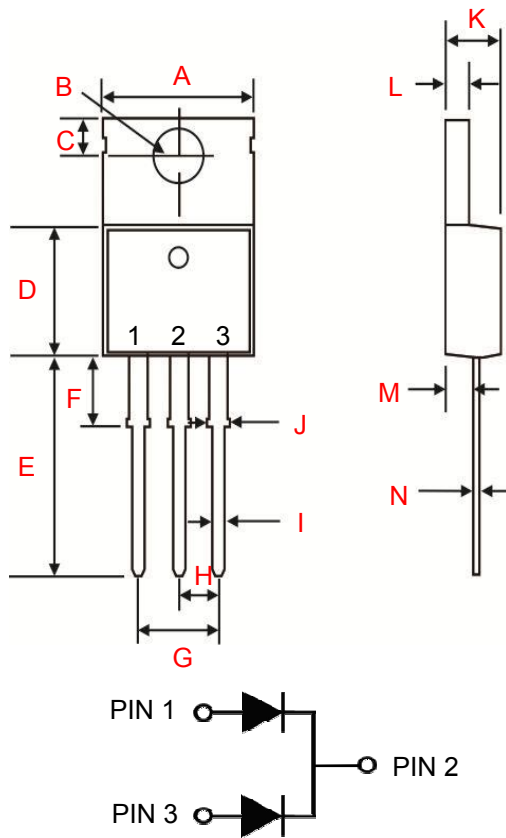


## High Power Schottky Barrier Rectifier

### Package Outline Dimensions ( millimeters )



TO-220AB		
Dim.	Min.	Max.
A	10.01	10.31
B	3.79	3.89
C	2.64	2.95
D	8.76	9.02
E	13.70	14.10
F	4.04	4.19
G	4.98	5.18
H	2.54 BSC	
I	0.71	0.91
J	1.17	1.50
K	4.47	4.67
L	1.17	1.37
M	2.52	2.82
N	0.28	0.48
All Dimensions in millimeter		

### Features

- High Current Capability
- Low Switching Noise
- High Surge Capability
- Low Power Loss & High Efficiency
- Guard Ring Protection
- Pd-free lead plating & Halogen-free part

### Mechanical

- Molded Plastic Low profile TO-220AB
- Plastic materials used carries underwriters laboratory flammability classification 94V-0
- Lead Temperature for Soldering Purposes : 265°C Max. for 10 Seconds
- Device Weight : Approximated 2.25 grams

### Maximum Ratings & Electrical Characteristics ( $T_A = 25^\circ\text{C}$ unless otherwise specified )

Parameter	Symbol	SB 3040CT	SB 3060CT	Units
DC Blocking Voltage	$V_{RM}$	40	60	
Working Peak Reverse Voltage	$V_{RWM}$	28	42	Volts
Peak Repetitive Reverse Voltage	$V_{RRM}$	40	60	
Average Rectified Output Current (Total Device)	$I_O$	30		Amps
Non-Repetitive Peak Forward Surge Current (Per Leg) (Surge applied at rated load conditions half wave, single phase, 60Hz)	$I_{FSM}$	200		Amps
Instantaneous Forward Voltage (Per Leg) $I_F = 15A, T_A = 25^\circ\text{C}$	$V_F$	0.6	0.73	Volts
Instantaneous Reverse Current (Per Leg) $V_R = V_{RRM}, T_A = 25^\circ\text{C}$ $V_R = V_{RRM}, T_A = 100^\circ\text{C}$	$I_R$	0.5 20		mA

NOTE : 1.Thermal resistance from junction to case per leg, with heatsink(1.35" x 0.95" x 0.18") Al-plate.

**Thermal Characteristics** (  $T_A = 25^\circ\text{C}$  unless otherwise specified ) (Per Leg)

Parameter	Symbol	Value	Units
Maximum Thermal Resistance Junction to Case	$R\theta_{JC}$	3.0	$^\circ\text{C} / \text{W}$
Operating & Storage Junction Temperature	$T_J$	125	$^\circ\text{C}$
	$T_{STG}$	- 65 to +150	

**Ratings and Characteristics Curves** (  $T_A = 25^\circ\text{C}$  unless otherwise specified )

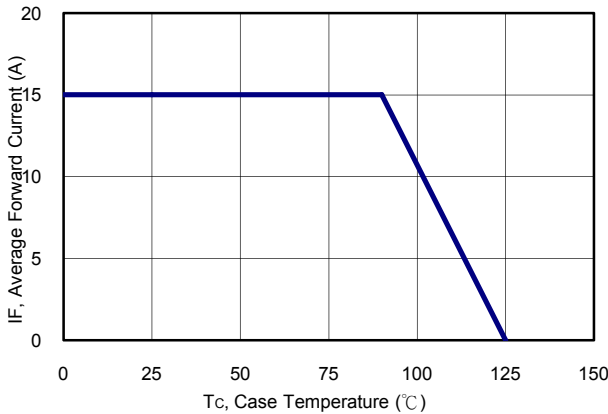


Figure 1: Current Derating Curves (Per Leg)

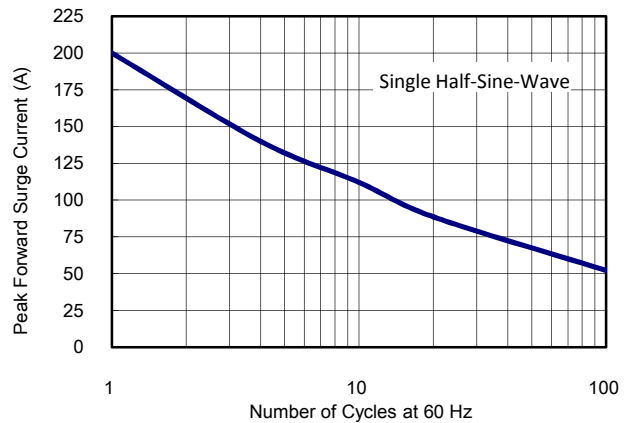


Figure 2: Peak Forward Surge Current (Per Leg)

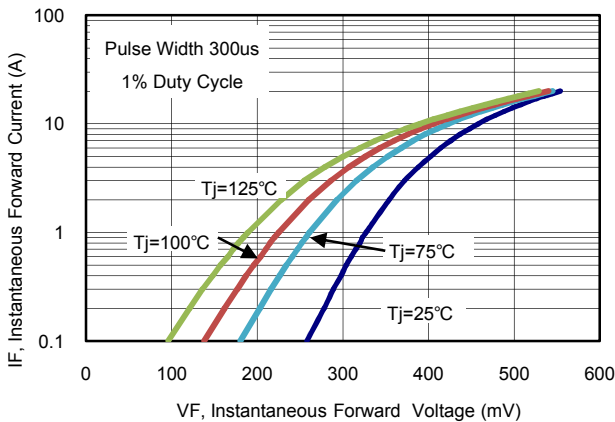


Figure 3: Typical Forward Characteristics (SB3040CT) (Per Leg)

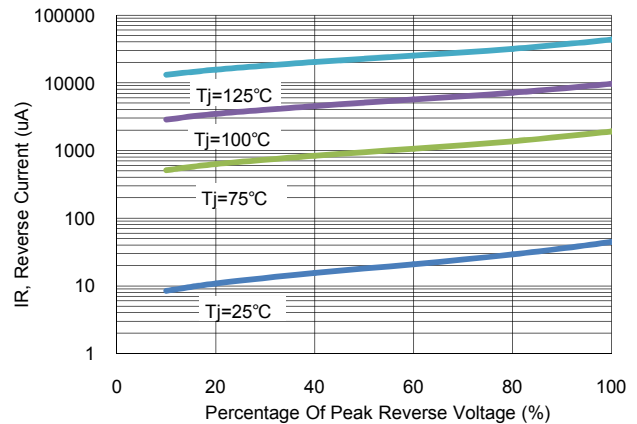


Figure 4: Typical Reverse Characteristics (SB3040CT) (Per Leg)

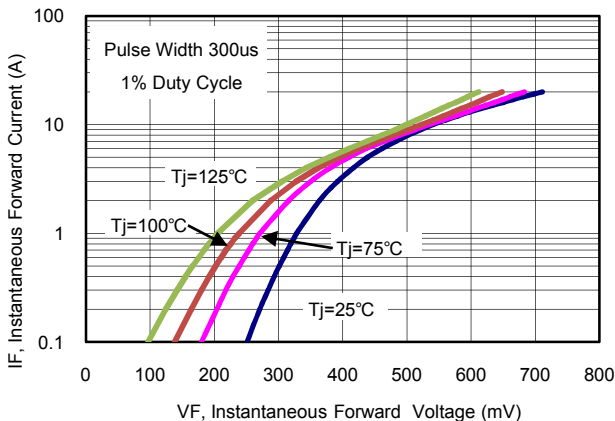


Figure 5: Typical Forward Characteristics (SB3060CT) (Per Leg)

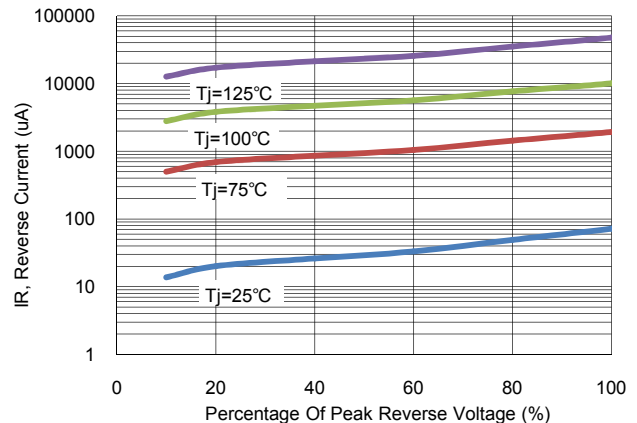
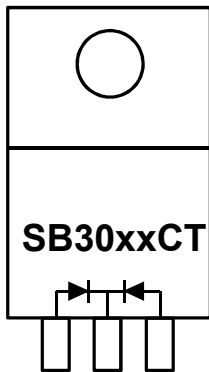


Figure 6: Typical Reverse Characteristics (SB3060CT) (Per Leg)

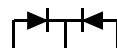
**Ordering information**

Part Number	Package	Delivery mode
SB3040CT / SB3060CT	TO-220AB	50 pieces / Tube

**Marking Code Information**



SB30xxCT = Product Type Marking Code

 = polarity

**Disclaimer**

All product specifications and data are subject to change without notice.

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