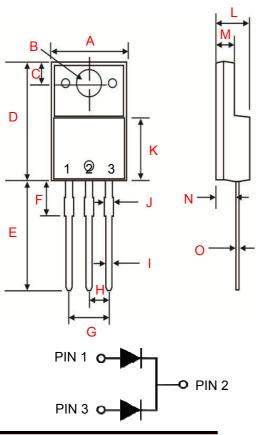
High Power Schottky Barrier Rectifier

Package Outline Dimensions (millimeters)



ITO-220AB				
Dim.	Min.	Max.		
Α	9.90	10.10		
В	2.90	3.50		
С	2.55	2.85		
D	14.80	15.40		
Е	13.00	13.80		
F	3.45	3.75		
G	5.10 BSC			
Н	2.55 BSC			
I	0.30	0.90		
J	1.00	1.55		
K	8.40	8.60		
L	4.20	4.80		
М	2.90	3.30		
N	2.50	2.90		
0	0.6 BSC			
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 ITO-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°C unless otherwise specified)

Parameter		Symbol	SB 3040FCT	SB 3060FCT	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)	Io	30		Amps
Non-Repetitive Peak Forward Surge Current (Per Leg)		1	200		Amps
(Surge applied at rated load conditions half wave, single phase, 60Hz)		I _{FSM}			
Instantaneous Forward Voltage (Per Leg)	I _F = 15A , T _A = 25℃	V_{F}	0.6	0.73	Volts
Instantaneous Reverse Current (Per Leg)	$V_R = V_{RRM}$, $T_A = 25^{\circ}C$	ı	0.5		mA
	$V_R = V_{RRM}$, $T_A = 100^{\circ}C$	I _R	2	20	

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°C unless otherwise specified) (Per Leg)

Parameter	Symbol	Value	Units
Maximum Thermal Resistance Junction to Case	$R\theta_{JC}$	6.0	°C / W
Operating & Storage Junction Temperature	T_J	125	°C
Operating & Storage surretion remperature	T _{STG}	- 65 to +150	C

Ratings and Characteristics Curves (T_A = 25°C unless otherwise specified)

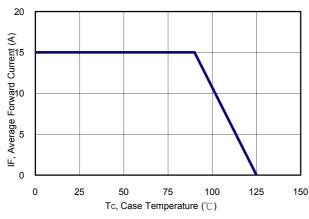


Figure 1: Current Derating Curves (Per Leg)

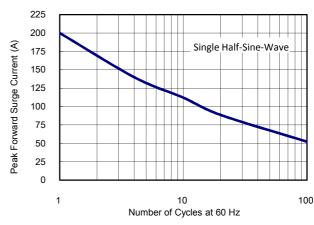


Figure 2: Peak Forward Surge Current (Per Leg)

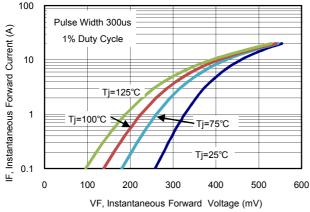


Figure 3: Typical Forward Characteristics (SB3040FCT) (Per Leg)

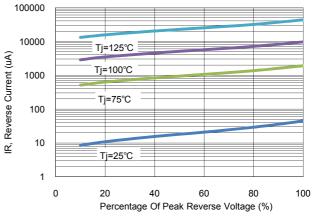


Figure 4: Typical Reverse Characteristics (SB3040FCT) (Per Leg)

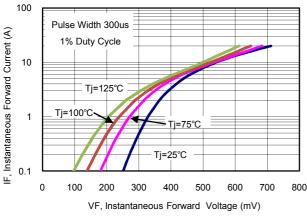


Figure 5: Typical Forward Characteristics (SB3060FCT) (Per Leg)

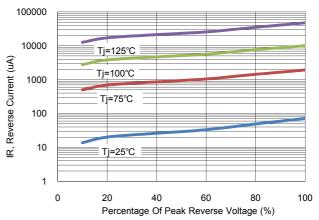
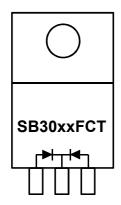


Figure 6: Typical Reverse Characteristics (SB3060FCT) (Per Leg)

Ordering information

Part Number	Package	Delivery mode
SB3040FCT / SB3060FCT	ITO-220AB	50 pieces / Tube

Marking Code Information



SB30xxFCT = Product Type Marking Code

= polarity

Disclaimer

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

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