

SB620F – SB660F

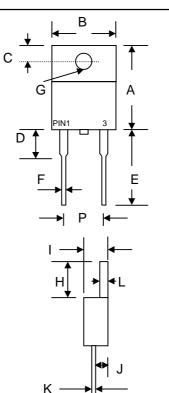
6.0A SCHOTTKY BARRIER RECTIFIER

Features

- Schottky Barrier Chip
- Guard Ring for Transient Protection
- Low Forward Voltage Drop
- Low Reverse Leakage Current
- High Surge Current Capability
- Plastic Material has UL Flammability Classification 94V-O

Mechanical Data

- Case: ITO-220A, Full Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram
- Weight: 2.24 grams (approx.)
- Mounting Position: Any
- Mounting Torque: 11.5 cm-kg (10 in-lbs) Max.
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



ITO-220A					
Dim	Min	Max			
Α	14.60	15.40			
В	9.70	10.30			
С	2.55	2.85			
D	3.56	4.16			
Е	13.00	13.80			
F	0.30	0.90			
G	3.00 Ø	3.50 Ø			
Н	6.30	6.90			
I	4.20	4.80			
J	2.50	2.90			
K	0.36	0.80			
L	2.90	3.30			
Р	4.83	5.33			
All Dimensions in mm					

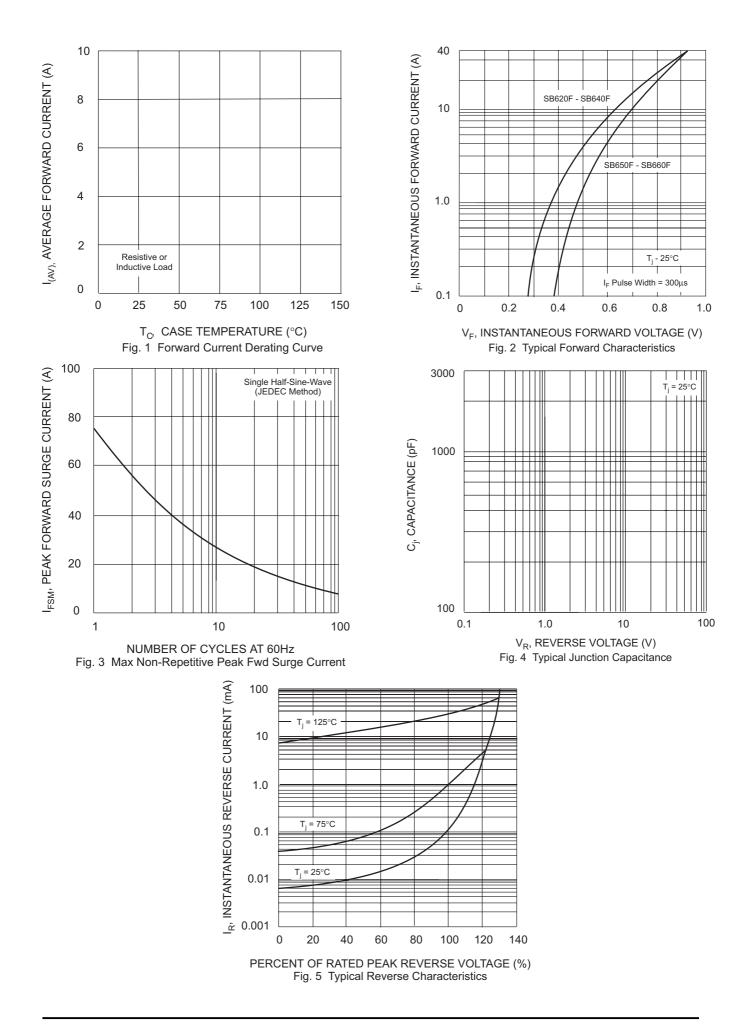


Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

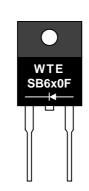
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic	Symbol	SB620F	SB630F	SB640F	SB650F	SB660F	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	50	60	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	V
Average Rectified Output Current $@T_c = 75^{\circ}$	C Io	6.0				А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	75				A	
Forward Voltage $@I_F = 6.0$	A Vfm		0.55		0.	70	V
Peak Reverse Current $@T_A = 25^{\circ}$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}$				0.2 15			mA
Typical Junction Capacitance (Note 1)	Cj	400			pF		
Typical Thermal Resistance (Note 2)	R <i>θ</i> JA	80				°C/W	
Operating and Storage Temperature Range	Tj, Tstg	-65 to +150					°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C. 2. Thermal resistance junction to ambient mounted on heatsink.



MARKING INFORMATION



WTE	= Manufacturer's Logo
SB6x0F	= Device Number
х	= 2, 3, 4, 5 or 6
Polarity	= As Marked on Body

PACKAGING INFORMATION

BULK

Tube Size	Quantity	Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
525 x 31 x 6	50	555 x 145 x 95	2,000	572 x 306 x 218	8,000	19.0

Note: 1. Anti-static tube, water clear color.

RECOMMENDED SCREW MOUNTING ARRANGEMENT

The full molded plastic package affords a major reduction of hardware as compared to a standard TO-220 package. However, precautions should be made in mounting procedure.	6-32 HEX Head Screw Plain Washer	
A conical washer should be used to apply	Rectifier	
proper force to the device. Screw should	Rectiller	
not be tightened with any type of air-forced torque or equipment that may cause crack	Heatsink	
on device package.	Conical Washer	
A layer of thermal grease or thermal pad in	6-32 HEX Nut	
the interface will be considerably helpful for		
heat dissipation.		

ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SB620F	ITO-220A	50 Units/Tube
SB630F	ITO-220A	50 Units/Tube
SB640F	ITO-220A	50 Units/Tube
SB650F	ITO-220A	50 Units/Tube
SB660F	ITO-220A	50 Units/Tube

1.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, SB620F-LF. 2.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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