

S30VT60 - S30VT160

35A GLASS PASSIVATED THREE-PHASE BRIDGE RECTIFIER MODULE

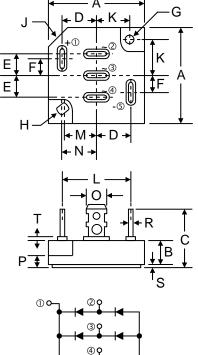


Features

- Glass Passivated Die Construction
- Low Forward Voltage Drop
- High Current Capability
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Plastic Material has UL Recognition Flammability Classification Rating 94V-0

Mechanical Data

- Case: Epoxy Case Mounted in the Bridge Encapsulation
- Terminals: Plated Faston Lugs Solderable per MIL-STD-202, Method 208
- Polarity: See Diagram Below
- Weight: 45 grams (approx.)
- Mounting Position: Bolt Down on Heatsink With Silicone Thermal Compound Between Module and Mounting Surface for Maximum Heat Transfer Efficiency
- Mounting Torque: 0.8 N.m Max.
- Marking: Type Number
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4



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SVT				
Dim	Min	Max		
Α	34.5	36.0		
В	9.8	10.4		
С	27.0	29.0		
D	13.1	14.1		
Е	8.5	9.5		
F	6.5	7.5		
G	3.5 Ø Typical			
н	R 1.75 Typical			
J	3.7 x 45°			
к	_	12.8		
L	26.2	28.2		
М	_	12.5		
Ν	_	13.1		
0	6.2	6.5		
Р	5.5	6.5		
R	0.7	0.9		
S	1.0	1.8		
Т	1.4	1.6		
All Dimensions in mm				

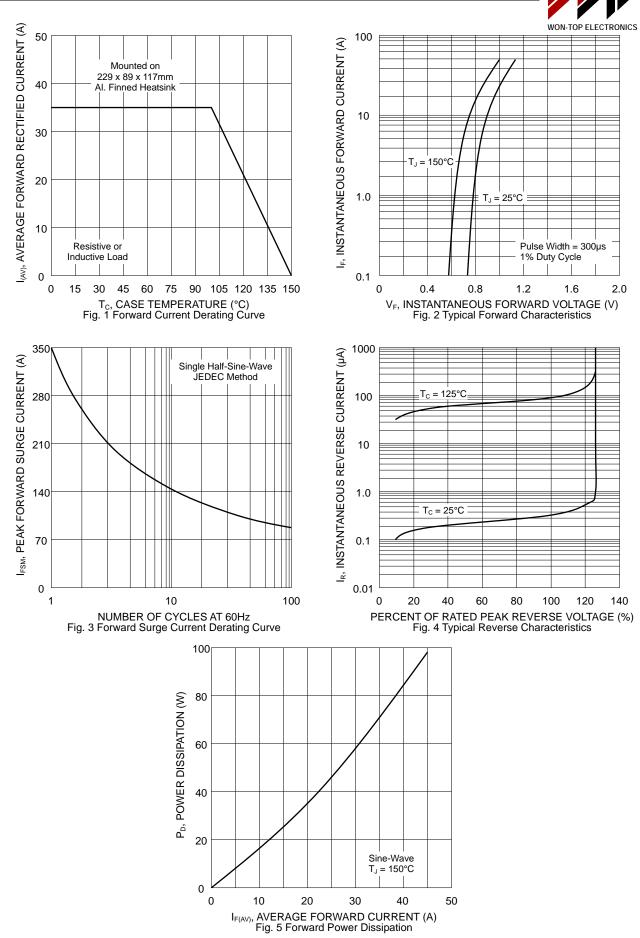
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

Characteristic	Symbol	S30VT60	S30VT80	S30VT160	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	600	800	1600	V
RMS Reverse Voltage	VR(RMS)	420	560	1120	V
Average Rectified Output Current $@T_c = 100^{\circ}C$	lo	35		А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	IFSM	350		A	
Forward Voltage per diode $@I_F = 12.5A$	Vfm	1.05			V
Peak Reverse Current At Rated DC Blocking Voltage	Iгм	10		μA	
$I^{2}t$ Rating for Fusing per diode (1ms < t < 10ms)	l ² t	800		300	A ² s
Thermal Resistance Junction to Case (Note 1)	R JC	0.7		°C/W	
RMS Isolation Voltage Terminals to Case, t = 1min	Viso	2000		V	
Operating and Storage Temperature Range	TJ, TSTG	-55 to +150		°C	

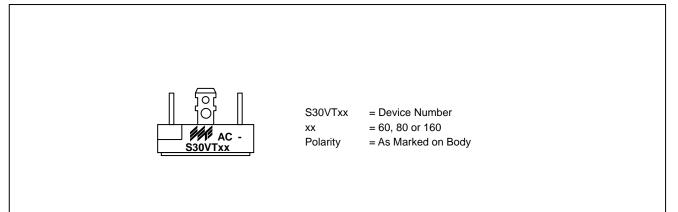
Note: 1. Mounted on 229 x 89 x 117mm Al. finned heatsink.

<u>S30VT60 – S30VT160</u>





MARKING INFORMATION



PACKAGING INFORMATION

BULK

Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	(KG)
195 x 195 x 40	25	405 x 205 x 240	250	

Note: 1. Paper box, white or brown color.



Product No.	Package Type	Shipping Quantity
S30VT60	Bridge Module	25 Units/Box
S30VT80	Bridge Module	25 Units/Box
S30VT160	Bridge Module	25 Units/Box

ORDERING INFORMATION

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, S30VT60-LF.

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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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