

S30VT60 - S30VT160



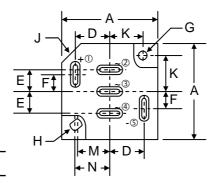
35A GLASS PASSIVATED THREE-PHASE BRIDGE RECTIFIER MODULE

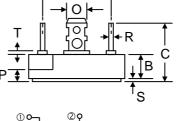
Features

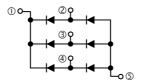
- Glass Passivated Die Construction
- Low Forward Voltage Drop
- **High Current Capability**
- High Reliability
- High Surge Current Capability
- Ideal for Printed Circuit Boards
- Plastic Material has UL Recognition Flammability Classification Rating 94V-O

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: 37 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







SVT					
Dim	Min	Max			
Α	_	36.0			
В	9.8	10.4			
С		29.0			
D	13.1	14.1			
Ε	8.5	9.5			
F	6.5	7.5			
G	3.5 Ø Typical				
Н	R 1.75 Typical				
J	3.7 x 45°				
K		12.8			
L	26.2	28.2			
M	_	12.5			
N	_	13.1			
0	6.2	6.5			
Р	5.5	6.5			
R	0.7	0.9			
S	1.0	1.8			
T	1.4	1.6			
All Dimensions in mm					

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

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

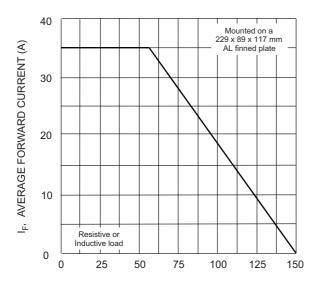
Characteristic	Symbol	S30VT60	S30VT80	S30VT160	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	600	800	1600	V
RMS Reverse Voltage	VR(RMS)	420	560	1120	V
Average Rectified Output Current @T _C = 55°C	lo	35		Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	350		А	
Forward Voltage per diode @I _F = 17.5A	VFM	1.1			٧
Peak Reverse Current At Rated DC Blocking Voltage	lгм	10		μA	
I ² t Rating for Fusing per diode (1ms < t < 10ms)	l ² t	800		A ² s	
Thermal Resistance Junction to Case (Note 1)	RθJC	0.7		°C/W	
RMS Isolation Voltage from Case to Leads	Viso	2000		V	
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150		°C	

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

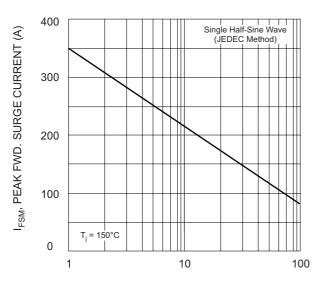
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Tel: 02-25651052

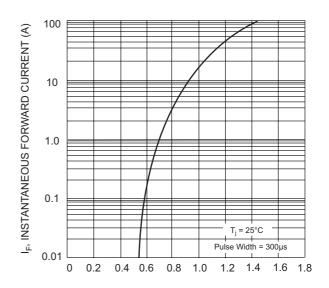
Fax: 02-25215390



T_C, CASE TEMPERATURE (°C) Fig. 1 Forward. Current Derating Curve



NUMBER OF CYCLES AT 60 Hz Fig. 3 Max Non-Repetitive Surge Current



 $\rm V_F$, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 2 Typical Forward Characteristics (per element)

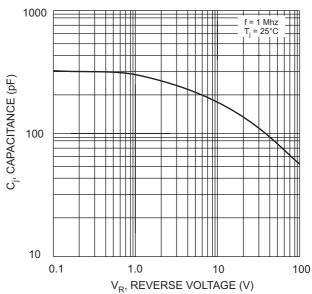
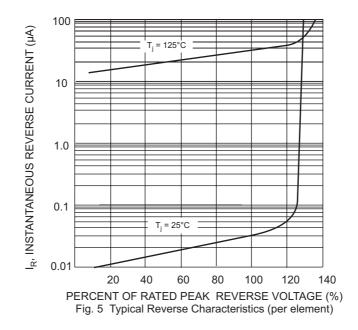
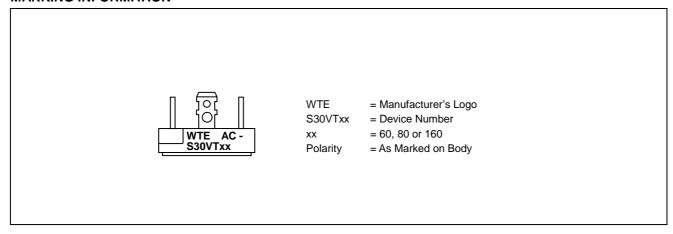


Fig. 4 Typical Junction Capacitance (per element)



MARKING INFORMATION



PACKAGING INFORMATION

BULK

Inner Box Size	Quantity	Carton Size	Quantity	Approx. Gross Weight (KG)
L x W x H (mm)	(PCS)	L x W x H (mm)	(PCS)	
195 x 195 x 40	25	405 x 205 x 240	250	12.0

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

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ORDERING INFORMATION

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

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, S30VT60-LF.

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Won-Top Electronics Co., Ltd.

No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung, Taiwan

Phone: 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

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