



## 30A HIGH VOLTAGE DUAL SCHOTTKY BARRIER RECTIFIER



#### **Features**

- Schottky Barrier Chip
- Guard Ring for Transient Protection
- Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Current Capability
- Epoxy Meets UL 94V-0 Classification
- Ideally Suited for Use in High Frequency SMPS, Inverters and As Free Wheeling Diodes

# **Mechanical Data**

Case: TO-3P, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-750, Method 2026

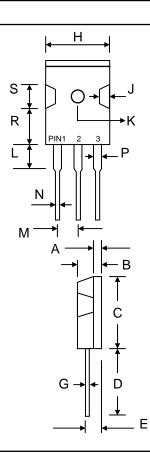
Polarity: See Diagram

Weight: 5.6 grams (approx.)

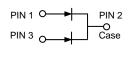
Mounting Position: Any

Mounting Torque: 1.2 N.m Max.

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4



TO-3P				
Dim	Min	Max		
Α	1.85	2.15		
В	4.70	5.30		
С	1	23.00		
D	19.00	_		
E	2.80	3.20		
G	0.45	0.85		
Н	_	16.20		
J	1.70	2.70		
K	3.15 Ø	3.65 Ø		
L	_	4.50		
М	5.25	5.65		
N	1.10	1.40		
Р	_	2.50		
R	11.70	12.70		
S	5.00	6.00		
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%.

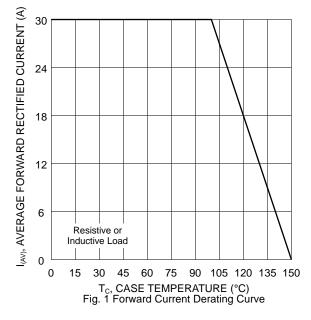
Characteristic	Symbol	S30D150C	S30D200C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	150	200	V
RMS Reverse Voltage	VR(RMS)	105	140	V
Average Rectified Output Current Total Device @T <sub>C</sub> = 100°C Per Diode	lo	-	0 5	А
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	Іғѕм	25	50	А
Forward Voltage per diode $@I_F = 15A, T_J = 25^{\circ}C$ $@I_F = 15A, T_J = 125^{\circ}C$	VFM		92 82	V
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	Irm	_	.5	mA
Typical Junction Capacitance (Note 1)	Cı	350		pF
Thermal Resistance Junction to Ambient per diode Thermal Resistance Junction to Case per diode	R JA R JC	40 1.4		°C/W
Operating and Storage Temperature Range	TJ, TSTG	-55 to	+150	°C

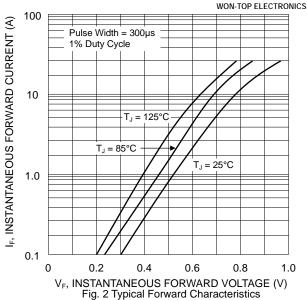
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

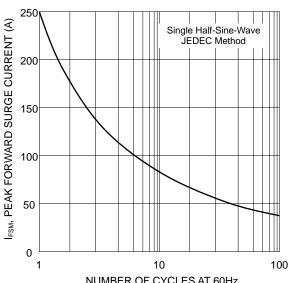
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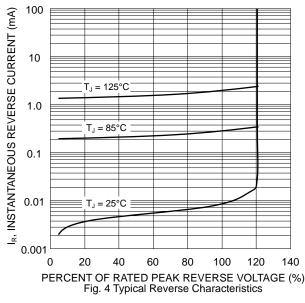
# S30D150C - S30D200C

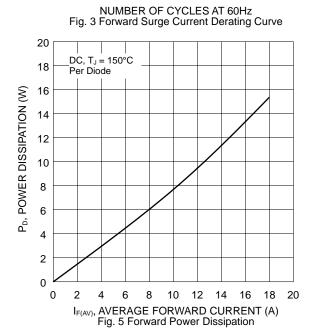


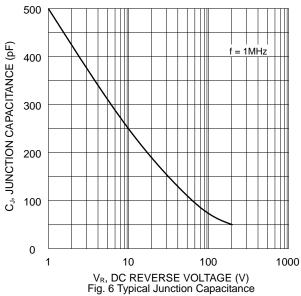






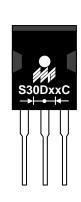








#### **MARKING INFORMATION**



S30DxxC = Device Number xx = 150 or 200

Polarity = As Marked on Body

## **PACKAGING INFORMATION**

#### **BULK**

Tube Size	Quantity	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)	L x W x H (mm)	(PCS)	
505 x 46 x 6.5	30	520 x 145 x 95	1,200	540 x 306 x 115	2,400	18.0

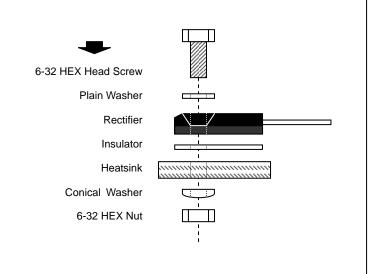
Note: 1. Anti-static tube, water clear color.

#### RECOMMENDED SCREW MOUNTING ARRANGEMENT

Recommended isolated mounting when screw is at heatsink potential. 6-32 hardware is used.

A conical washer should be used to apply proper force to the device. Screw should not be tightened with any type of air-forced torque or equipment that may cause high impact on device package.

The interface should apply a layer of thermal grease or a highly conductive thermal pad for better heat dissipation.



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#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
S30D150C	TO-3P	30 Units/Tube
S30D200C	TO-3P	30 Units/Tube

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- 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, S30D150C-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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