



60A 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

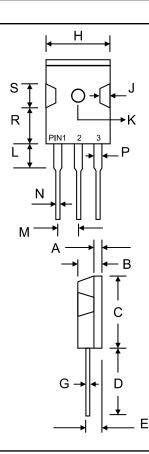
Polarity: See Diagram

• Weight: 5.6 grams (approx.)

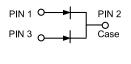
Mounting Position: Any

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	_	23.00			
D	19.00				
Е	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

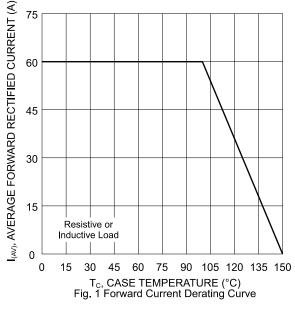
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

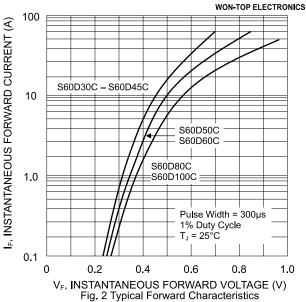
Characteristic	Symbol	S60D 30C	S60D 35C	\$60D 40C	S60D 45C	S60D 50C	S60D 60C	S60D 80C	S60D 100C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	30	35	40	45	50	60	80	100	٧
RMS Reverse Voltage	VR(RMS)	21	25	28	32	35	42	56	70	V
Average Rectified Output Current Total Device @T _c = 100°C Per Diode	lo	60 30						Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	I FSM	350					А			
Forward Voltage per diode @ I_F = 30A, T_J = 25°C	Vғм	0.65 0.75 0.85 0.55 0.65 0.75					٧			
Peak Reverse Current $@T_J = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_J = 100^{\circ}C$	I RM	1.0 50				mA				
Typical Junction Capacitance (Note 1)	Cl	1500 1100					pF			
Thermal Resistance Junction to Ambient per diode Thermal Resistance Junction to Case per diode	RθJA RθJC	40 1.0							°C/W	
Operating and Storage Temperature Range	ТЈ, Тѕтс	-55 to +150							°C	

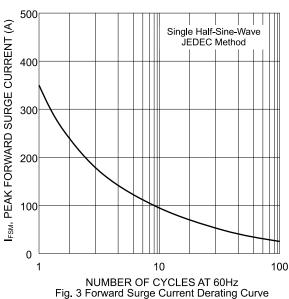
Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.

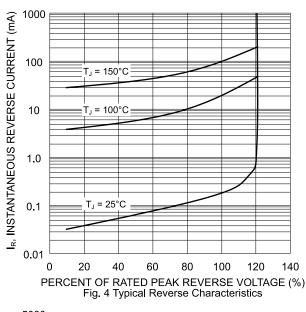
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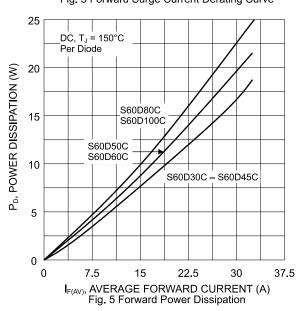


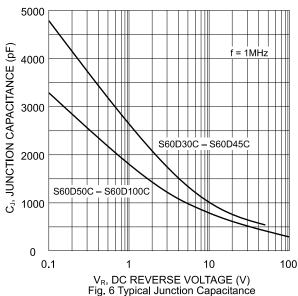














MARKING INFORMATION



S60DxxC = Device Number

xx = 30, 35, 40, 45, 50, 60, 80 or 100

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

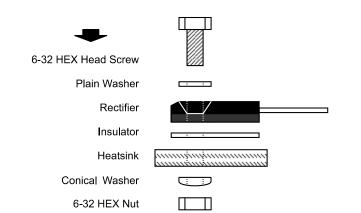
Note: 1. Anti-static tube, water clear color.

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
S60D30C	TO-3P	30 Units/Tube
S60D35C	TO-3P	30 Units/Tube
S60D40C	TO-3P	30 Units/Tube
S60D45C	TO-3P	30 Units/Tube
S60D50C	TO-3P	30 Units/Tube
S60D60C	TO-3P	30 Units/Tube
S60D80C	TO-3P	30 Units/Tube
S60D100C	TO-3P	30 Units/Tube

- Shipping quantity given is for minimum packing quantity only. For minimum 1. order quantity, please consult the Sales Department.
- 2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, S60D30C-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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