

S20D30C - S20D60C € ROHS



20A DUAL 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: TO-3P, Molded Plastic

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

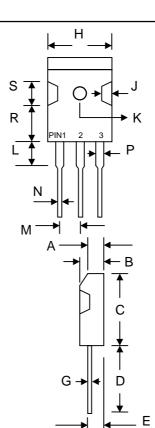
Polarity: See Diagram

Weight: 5.6 grams (approx.)

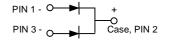
Mounting Position: Any

Mounting Torque: 11.5 cm-kg (10 in-lbs) Max.

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



TO-3P					
Dim	Min	Max			
Α	3.20	3.50			
В	4.70	5.30			
С	_	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	S20D 30C	S20D 35C	S20D 40C	S20D 45C	S20D 50C	S20D 60C	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	30	35	40	45	50	60	V
RMS Reverse Voltage	VR(RMS)	21	25	28	32	35	42	V
Average Rectified Output Current @T _C = 100°C	lo	20					Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	250					А	
Forward Voltage @I _F = 10A	VFM	0.55 0.65			65	V		
	lгм	1.0 50			mA			
Typical Junction Capacitance (Note 1)	Cj	1100					pF	
Typical Thermal Resistance Junction to Case (Note 2)	R _θ JC	1.5						°C/W
Operating and Storage Temperature Range	Тј, Тѕтс	-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 case mounted on heatsink.

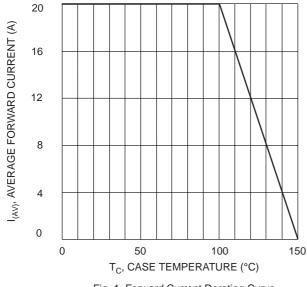
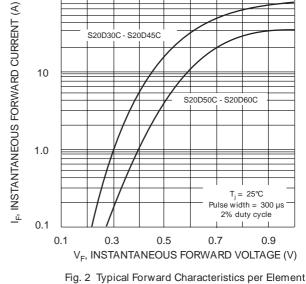


Fig. 1 Forward Current Derating Curve



100

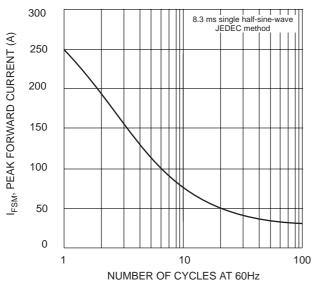


Fig. 3 Maximum Non-Repetitive Surge Current

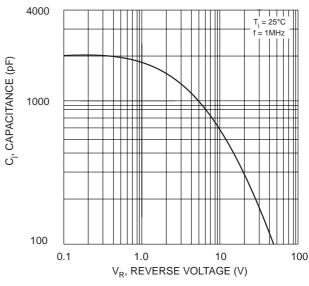


Fig. 4 Typical Junction Capacitance per Element

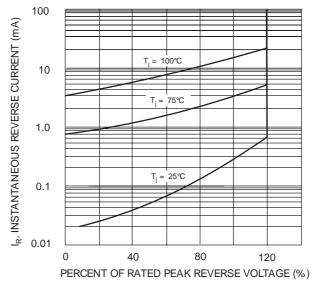
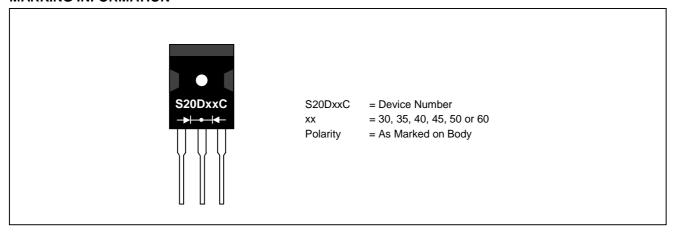


Fig. 5 Typical Reverse Characteristics per Element

MARKING INFORMATION



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

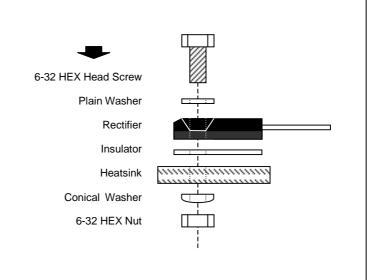
Note: 1. Anti-static tube, water clear color.

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.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
S20D30C	TO-3P	30 Units/Tube
S20D35C	TO-3P	30 Units/Tube
S20D40C	TO-3P	30 Units/Tube
S20D45C	TO-3P	30 Units/Tube
S20D50C	TO-3P	30 Units/Tube
S20D60C	TO-3P	30 Units/Tube

- 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, S20D30C-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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