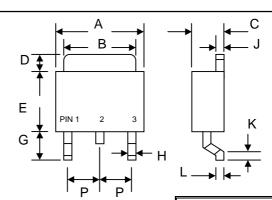


SD520S - SD5100S

5.0A DPAK SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

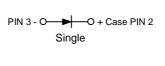
Features

- Schottky Barrier Chip
- Guard Ring Die Construction for Transient Protection
- High Current Capability
- Low Power Loss, High Efficiency
- High Surge Current Capability
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling, and Polarity Protection Applications



Mechanical Data

- Case: Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band
- Weight: 0.4 grams (approx.)
- Mounting Position: Any
- Marking: Type Number
- Standard Packaging: 16mm Tape (EIA-481)



D PAK/TO-252AA						
Dim	Min	Max				
Α	6.4	6.8				
В	5.0	5.4				
С	2.35	2.75				
D		1.60				
Е	5.3	5.7				
G	2.3	2.7				
Н	0.4	0.8				
J	0.4	0.6				
K	0.3 0.7					
L	0.50 Typical					
Р		2.3				
All Dimensions in mm						

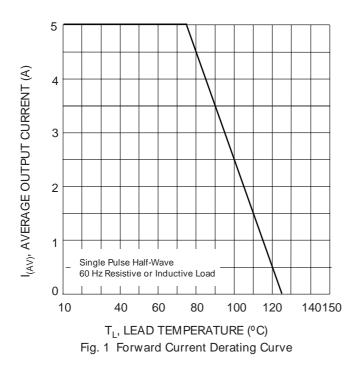
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

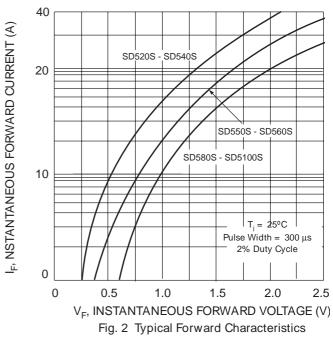
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

Characteristic		Symbol	SD 520S	SD 530S	SD 540S	SD 550S	SD 560S	SD 580S	SD 5100S	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	20	30	40	50	60	80	100	٧
RMS Reverse Voltage		VR(RMS)	14	21	28	35	42	56	70	V
Average Rectified Output Current	@T _L = 75°C	lo	5.0					Α		
Non-Repetitive Peak Forward Surge Single half sine-wave superimposed (JEDEC Method)	IFSM	100					Α			
Forward Voltage (Note 1)	@I _F = 5.0A	VFM	0.55 0.75 0.85				85	V		
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 100°C	lгм	0.2 20					mA		
Typical Junction Capacitance (Note 2)		Cj	400						pF	
Typical Thermal Resistance Junction to Ambient		RθJA	50						K/W	
Operating Temperature Range		Tj	-50 to +125						°C	
Storage Temperature Range		Тѕтс	-50 to +150						°C	

Note: 1. Mounted on P.C. Board with 14mm² (0.13mm thick) copper pad.

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.





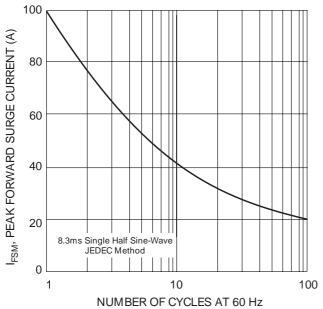


Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current



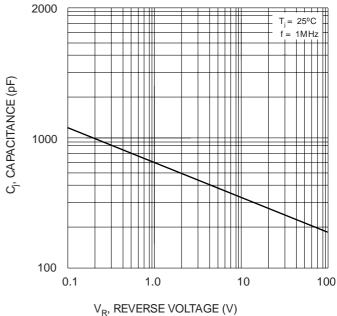


Fig. 4 Typical Junction Capacitance

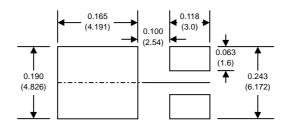
ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity
SD520S-T3	DPAK	2500/Tape & Reel
SD530S-T3	DPAK	2500/Tape & Reel
SD540S-T3	DPAK	2500/Tape & Reel
SD550S-T3	DPAK	2500/Tape & Reel
SD560S-T3	DPAK	2500/Tape & Reel
SD580S-T3	DPAK	2500/Tape & Reel
SD5100S-T3	DPAK	2500/Tape & Reel

[◆]T3 suffix refers to a 13" reel.

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

RECOMMENDED FOOTPRINT



inches(mm)

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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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