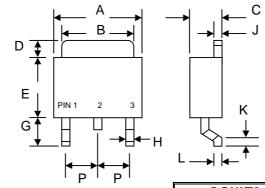


SD520YS – SD5100YS

5.0A DPAK SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

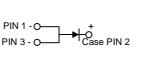
Features

- Schottky Barrier chip
- Guard Ring Die Construction
- Low Profile Package
- High Surge Current Capability
- Low Power Loss, High Efficiency
- Ideal for Printed Circuit Board
- For Use in Low Voltage, High Frequency Inverters, Free Wheeling 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				
E	5.3	5.7				
G	2.3	2.7				
н	0.4	0.8				
J	0.4	0.6				
К	0.3	0.7				
L	0.50 Typical					
Р	_	2.3				
All Dimensions in mm						

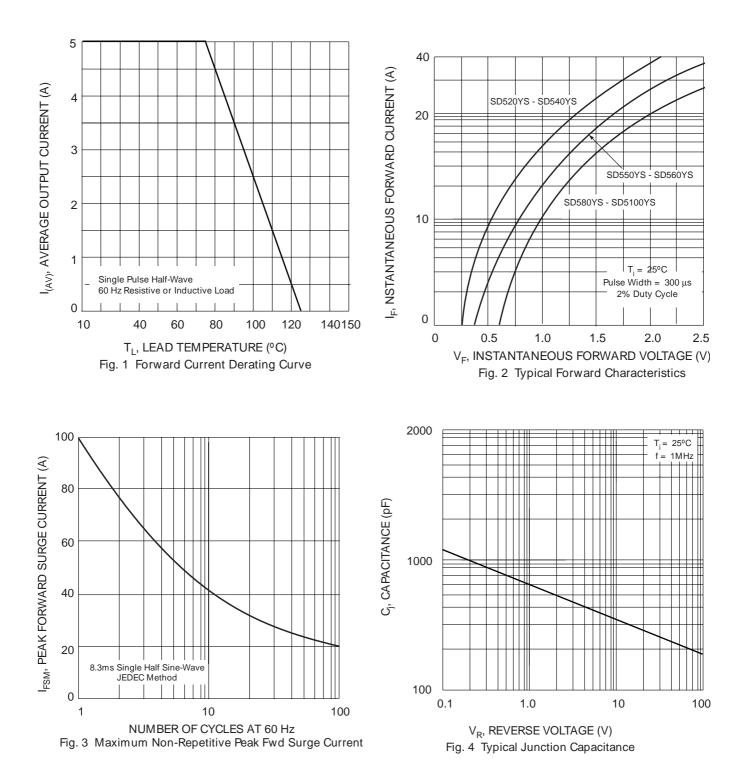
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

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

Characteristic	Symbol	SD 520YS	SD 530YS	SD 540YS	SD 550YS	SD 560YS	SD 580YS	SD 5100YS	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	20	30	40	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	70	V
Average Rectified Output Current $@T_{L} = 75^{\circ}C$	ю	5.0						А	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100					А		
Forward Voltage (Note 1) $@I_F = 5.0A$	Vfm	0.55 0.75 0.85				85	V		
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	0.2 20					mA		
Typical Junction Capacitance (Note 2)	Cj	400						pF	
Typical Thermal Resistance Junction to Ambient	R∂JA	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.



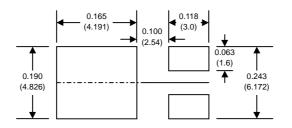
ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SD520YS-T3	DPAK	2500/Tape & Reel
SD530YS-T3	DPAK	2500/Tape & Reel
SD540YS-T3	DPAK	2500/Tape & Reel
SD550YS-T3	DPAK	2500/Tape & Reel
SD560YS-T3	DPAK	2500/Tape & Reel
SD580YS-T3	DPAK	2500/Tape & Reel
SD5100YS-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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