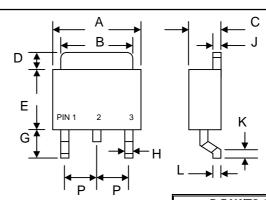


# **SD320YS - SD3100YS**

## 3.0A DPAK SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

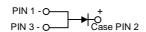
#### **Features**

- 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				
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						

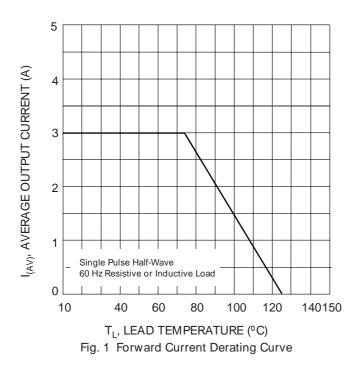
# Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

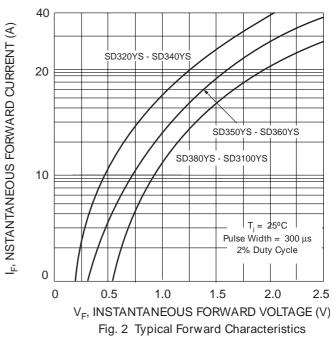
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

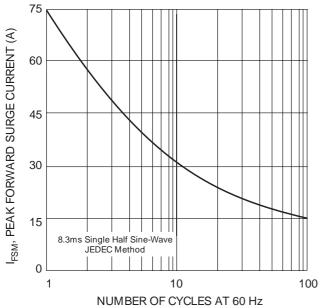
Characteristic		Symbol	SD 320YS	SD 330YS	SD 340YS	SD 350YS	SD 360YS	SD 380YS	SD 3100YS	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	20	30	40	50	60	80	100	<b>V</b>
RMS Reverse Voltage		VR(RMS)	14	21	28	35	42	56	70	٧
Average Rectified Output Current @T <sub>L</sub> = 75°C		lo	3.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		İFSM	75					А		
Forward Voltage (Note 1)	@I <sub>F</sub> = 3.0A	VFM	0.5 0.64 0.85				85	V		
Peak Reverse Current At Rated DC Blocking Voltage	@T <sub>A</sub> = 25°C @T <sub>A</sub> = 100°C	lгм	0.2 20					mA		
Typical Junction Capacitance (Note 2)		Cj	250						pF	
Typical Thermal Resistance Junction to Ambient		R ⊕ JA	80					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 14mm<sup>2</sup> (0.13mm thick) copper pad.

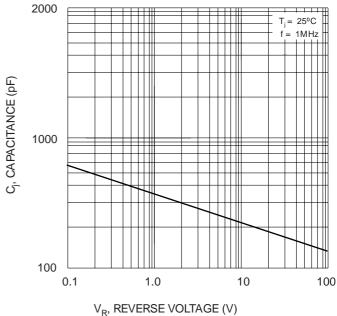
2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.









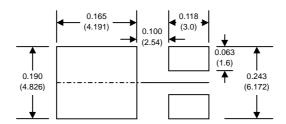


#### **ORDERING INFORMATION**

Product No.	Package Type	Shipping Quantity
SD320YS-T3	DPAK	2500/Tape & Reel
SD330YS-T3	DPAK	2500/Tape & Reel
SD340YS-T3	DPAK	2500/Tape & Reel
SD350YS-T3	DPAK	2500/Tape & Reel
SD360YS-T3	DPAK	2500/Tape & Reel
SD380YS-T3	DPAK	2500/Tape & Reel
SD3100YS-T3	DPAK	2500/Tape & Reel

<sup>◆</sup>T3 suffix refers to a 13" reel.

#### **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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**Phone:** 886-7-822-5408 or 886-7-822-5410

Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com



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