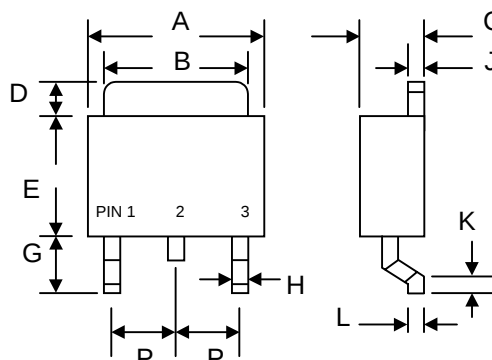


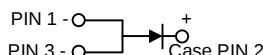
Features

- 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)



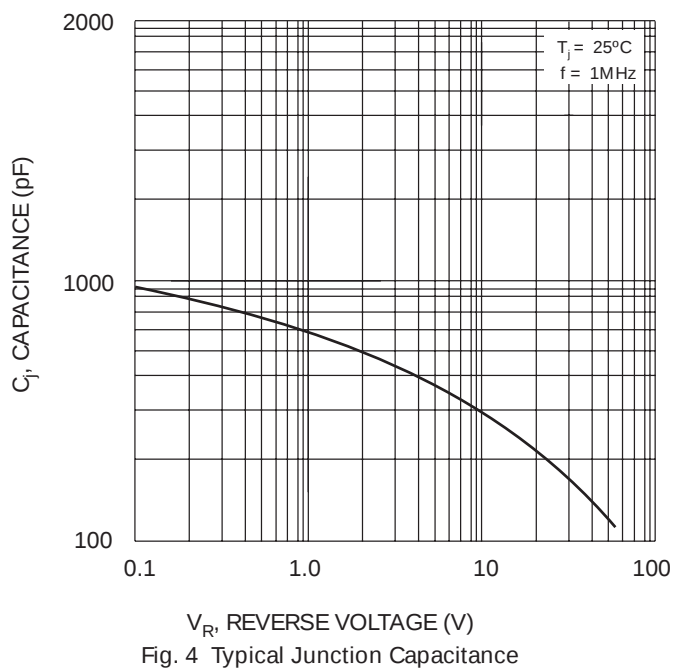
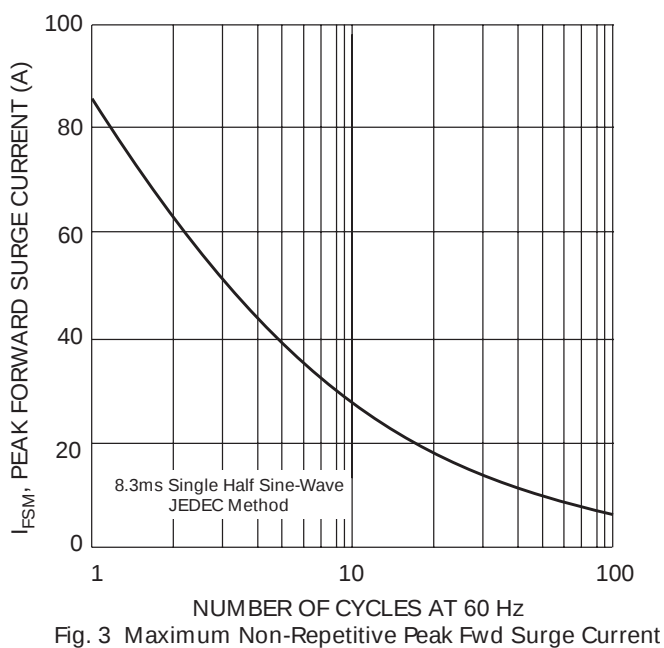
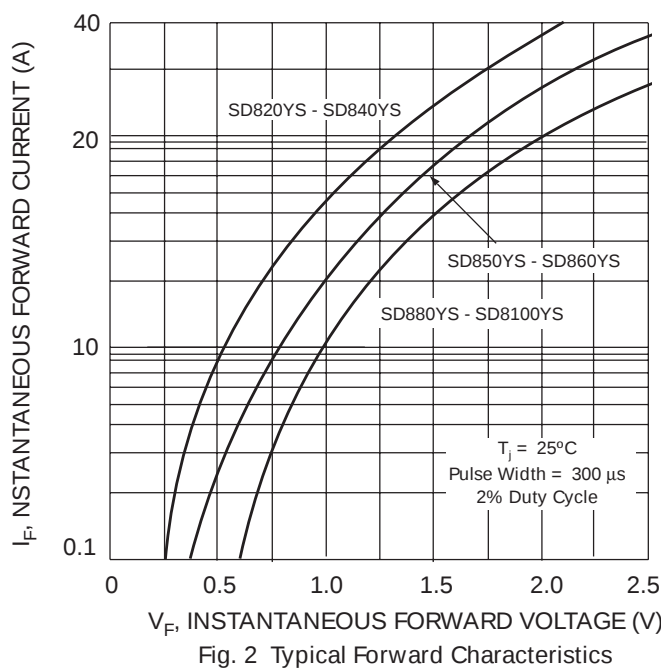
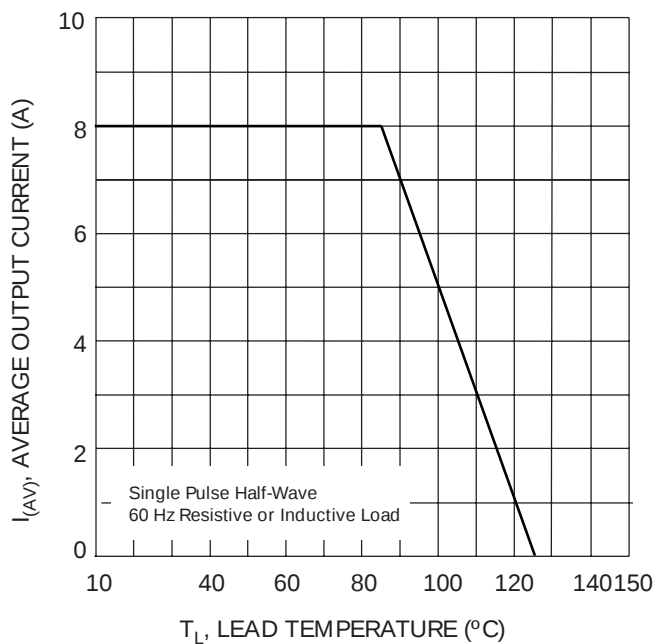
D PAK/TO-252AA		
Dim	Min	Max
A	6.4	6.8
B	5.0	5.4
C	2.35	2.75
D	—	1.60
E	5.3	5.7
G	2.3	2.7
H	0.4	0.8
J	0.4	0.6
K	0.3	0.7
L	0.50 Typical	
P	—	2.3
All Dimensions in mm		

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 820YS	SD 830YS	SD 840YS	SD 850YS	SD 860YS	SD 880YS	SD 8100YS	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 @TL = 85°C	IO	8.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	85							A
Forward Voltage (Note 1) @IF = 8.0A	VFM	0.65			0.75		0.85		V
Peak Reverse Current @TA = 25°C At Rated DC Blocking Voltage @TA = 100°C	IRM	0.2 20							mA
Typical Junction Capacitance (Note 2)	Cj	400							pF
Typical Thermal Resistance Junction to Ambient	RθJA	60							K/W
Operating Temperature Range	Tj	-50 to +125							°C
Storage Temperature Range	TSTG	-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.



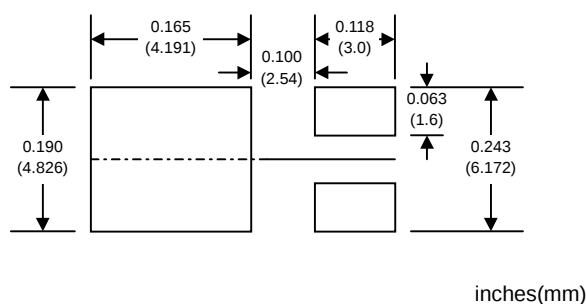
ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity
SD820YS-T3	DPAK	2500/Tape & Reel
SD830YS-T3	DPAK	2500/Tape & Reel
SD840YS-T3	DPAK	2500/Tape & Reel
SD850YS-T3	DPAK	2500/Tape & Reel
SD860YS-T3	DPAK	2500/Tape & Reel
SD880YS-T3	DPAK	2500/Tape & Reel
SD8100YS-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



Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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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Internet: <http://www.wontop.com>

We power your everyday.