

SD820S – SD8100S

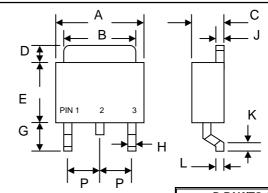
8.0A DPAK SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

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)



PIN 3 - O PIN 2 Single

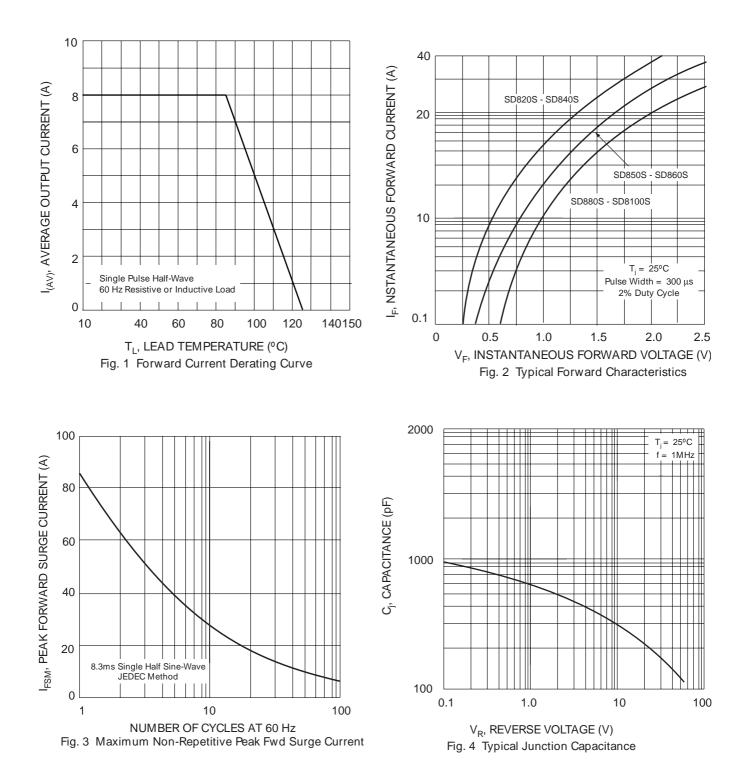
D PAK/TO-252AA					
Dim	Min	Max			
Α	6.4	6.8			
В	5.0	5.4			
С	2.35	2.75			
D		1.60			
E	5.3	5.7			
G	2.3	2.7			
н	0.4	0.8			
J	0.4	0.6			
К	0.3	0.7			
L	0.50 Typical				
Р	_	2.3			
All Dimensions in mm					

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 820S	SD 830S	SD 840S	SD 850S	SD 860S	SD 880S	SD 8100S	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 = 85°C	lo	8.0				Α			
Non-Repetitive Peak Forward Surge Cur Single half sine-wave superimposed on r (JEDEC Method)		 FSM	85			А				
Forward Voltage (Note 1)	@I _F = 8.0A	Vfm	0.65 0.75 0.85				85	V		
	$P_A = 25^{\circ}C$ $P_A = 100^{\circ}C$	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.



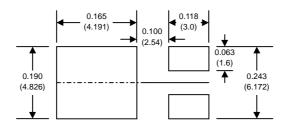
ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
SD820S-T3	DPAK	2500/Tape & Reel
SD830S-T3	DPAK	2500/Tape & Reel
SD840S-T3	DPAK	2500/Tape & Reel
SD850S-T3	DPAK	2500/Tape & Reel
SD860S-T3	DPAK	2500/Tape & Reel
SD880S-T3	DPAK	2500/Tape & Reel
SD8100S-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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