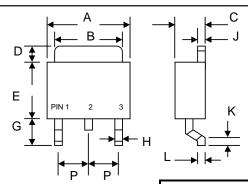


SD620CS - SD6100CS

6.0A 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



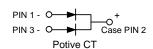
Mechanical Data

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			
E	5.3	5.7			
G	2.3	2.7			
Н	0.4	8.0			
J	0.4	0.6			
K	0.3	0.7			
L	0.50 Typical				
Р	— 2.3				
All Dimensions in mm					

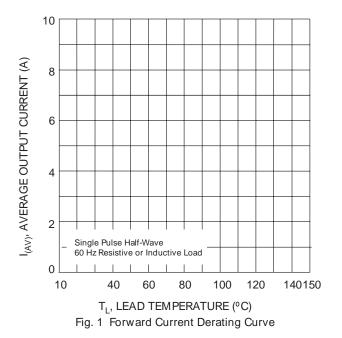
Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

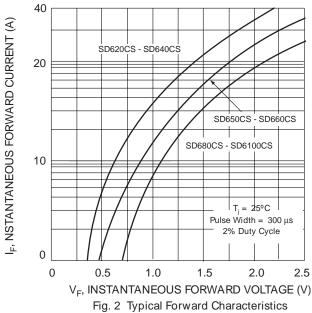
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

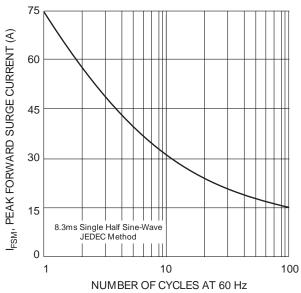
Characteristic	Symbol	SD 620CS	SD 630CS	SD 640CS	SD 650CS	SD 660CS	SD 680CS	SD 6100CS	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	50	60	80	100	٧
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	70	٧
Average Rectified Output Current @T _L = 75°C	lo	6.0						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	75					А		
Forward Voltage (Note 1) @I _F = 3.0A	VFM	0.55 0.70 0.85				85	٧		
$ \begin{array}{lll} \mbox{Peak Reverse Current} & \mbox{@T_A} = 25^{\circ}\mbox{C} \\ \mbox{At Rated DC Blocking Voltage} & \mbox{@T_A} = 100^{\circ}\mbox{C} \\ \end{array} $	IRM	0.2 15					mA		
Typical Junction Capacitance (Note 2)	Cj	400					pF		
Typical Thermal Resistance Junction to Ambient	R _θ JA	80					K/W		
Operating Temperature Range	Tj	-50 to +125						°C	
Storage Temperature Range	Тѕтс	-50 to +150					°C		

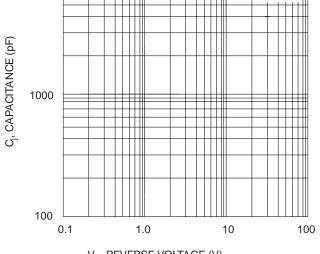
Note: 1. Mounted on P.C. Board with 14mm² (0.13mm thick) copper pad.

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









 $T_i = 25^{\circ}C$

2000

Fig. 3 Maximum Non-Repetitive Peak Fwd Surge Current

 V_R , REVERSE VOLTAGE (V) Fig. 4 Typical Junction Capacitance

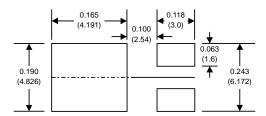
ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity			
SD620CS-T3	DPAK	2500/Tape & Reel			
SD630CS-T3	DPAK	2500/Tape & Reel			
SD640CS-T3	DPAK	2500/Tape & Reel			
SD650CS-T3	DPAK	2500/Tape & Reel			
SD660CS-T3	DPAK	2500/Tape & Reel			
SD680CS-T3	DPAK	2500/Tape & Reel			
SD6100CS-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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