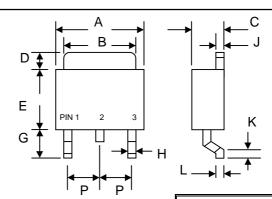


SD1020CS - SD10100CS

10A DPAK SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

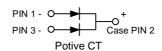
Features

- 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			
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					
· · · · · · · · · · · · · · · · · · ·		•			

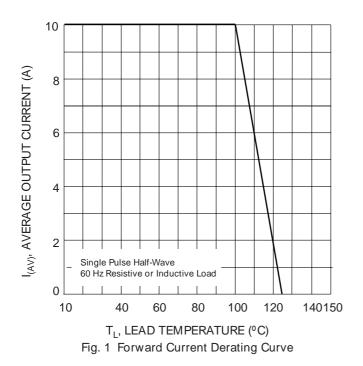
Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

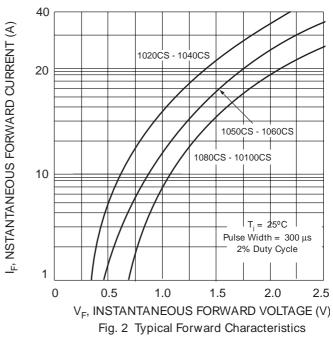
Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

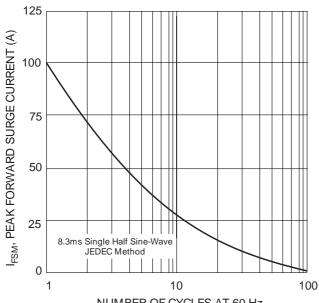
Characteristic	Symbol	SD 1020CS	SD 1030CS	SD 1040CS	SD 1050CS	SD 1060CS	SD 1080CS	SD 10100CS	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	30	40	50	60	80	100	V
RMS Reverse Voltage	VR(RMS)	14	21	28	35	42	56	70	V
Average Rectified Output Current @T _L = 100°C	lo	10						Α	
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100					Α		
Forward Voltage (Note 1) @I _F = 5.0A	VFM	0.55 0.75 0.85				85	V		
Peak Reverse Current	IRM	0.2 50					mA		
Typical Junction Capacitance (Note 2)	Cj	600						pF	
Typical Thermal Resistance Junction to Ambient	R_{θ} JA	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.









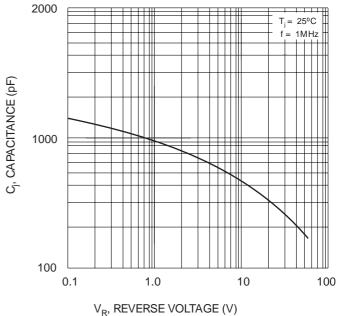


Fig. 4 Typical Junction Capacitance

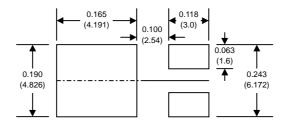
ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity
SD1020CS-T3	DPAK	2500/Tape & Reel
SD1030CS-T3	DPAK	2500/Tape & Reel
SD1040CS-T3	DPAK	2500/Tape & Reel
SD1050CS-T3	DPAK	2500/Tape & Reel
SD1060CS-T3	DPAK	2500/Tape & Reel
SD1080CS-T3	DPAK	2500/Tape & Reel
SD10100CS-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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