

SD1020CS~SD1060CS

20 to 60 Volt

SCHOTTKY BARRIER RECTIFIERS

VOLTAGE

10 Ampere

FEATURES

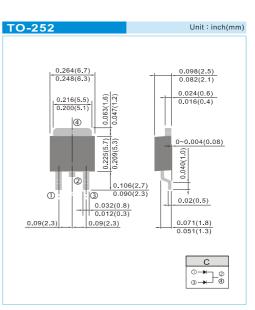
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Low power loss, High efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications

CURRENT

- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: TO-252 molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: As marking
- Weight: 0.0104 ounces, 0.297 grams.
- Marking: Part number



MAXIMUM RATINGS AND DELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

PARAMETER	SYMBOL	SD1020CS	SD1030CS	SD1040CS	SD1050CS	SD1060CS	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	20	30	40	50	60	v
Maximum RMS Voltage	V _{rms}	14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current at T _c =75°C	I _{F(AV)}	10					A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{fsm}	100					А
Maximum Instantaneous Forward Voltage at 5A per leg	V _F	0.55 0.75			V		
Maximum DC Reverse Current at Rated DC Blocking $T_j=25^{\circ}C$ Voltage $T_j=100^{\circ}C$	I _R	0.2 20		-	0.1 20		
Typical Thermal Resistance	R _{ejc} R _{eja}	5 80					°C / W
Operating Junction Temperature Range	TJ	-55 to	o +125 -55 to +150			°C	
Storage Temperature Range	Tstg	-55 to +150					°C

NOTES:

1. Both Bonding and Chip structure are available.



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RATING AND CHARACTERISTIC CURVES

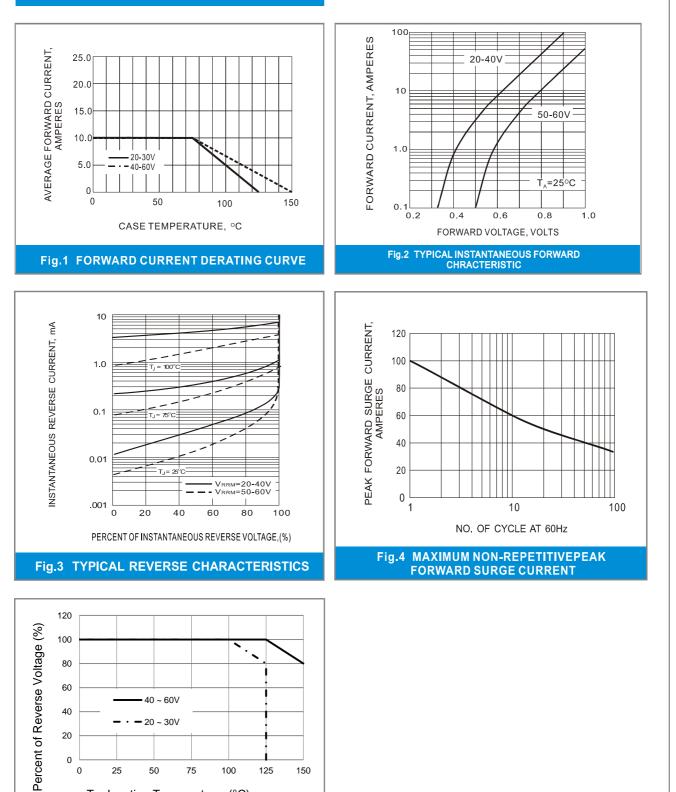


Fig.5 Operating Temperature Derating Curve

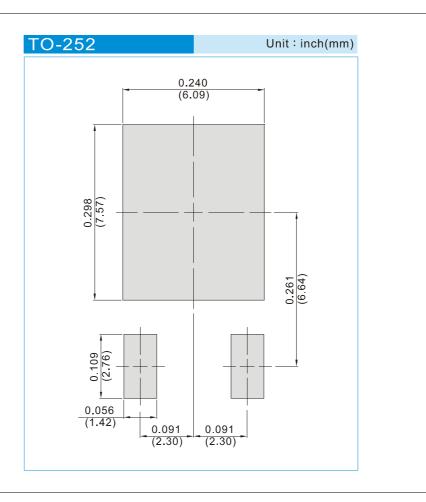
T_J, Junction Temperature (°C)





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MOUNTING PAD LAYOUT

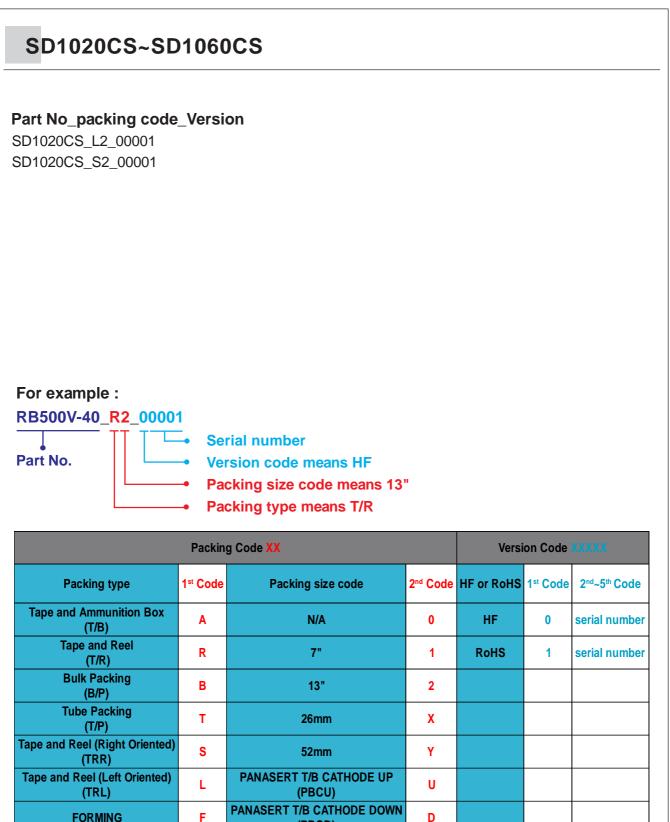


ORDER INFORMATION

Packing information

T/R - 3K per 13" plastic Reel





(PBCD)





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