

# SD1020CS~SD1060CS

20 to 60 Volt

### SCHOTTKY BARRIER RECTIFIERS

VOLTAGE

### 10 Ampere

#### **FEATURES**

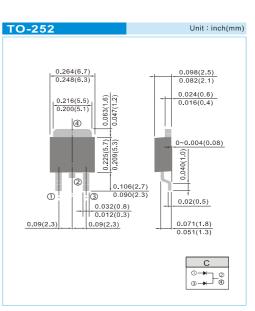
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Low power loss, High efficiency
- High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications

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 <sub>rrm</sub>	20	30	40	50	60	V
Maximum RMS Voltage	V <sub>rms</sub>	14	21	28	35	42	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	20	30	40	50	60	V
Maximum Average Forward Rectified Current at T <sub>c</sub> =75°C	I <sub>F(AV)</sub>	10					А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	100					A
Maximum Instantaneous Forward Voltage at 5A per leg	V <sub>F</sub>	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 <sub>R</sub>	0.2 20		0.1 20		mA	
Typical Thermal Resistance	R <sub>ejc</sub> R <sub>eja</sub>	5 80					°C / W
Operating Junction Temperature Range	ТJ	-55 to	55 to +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**

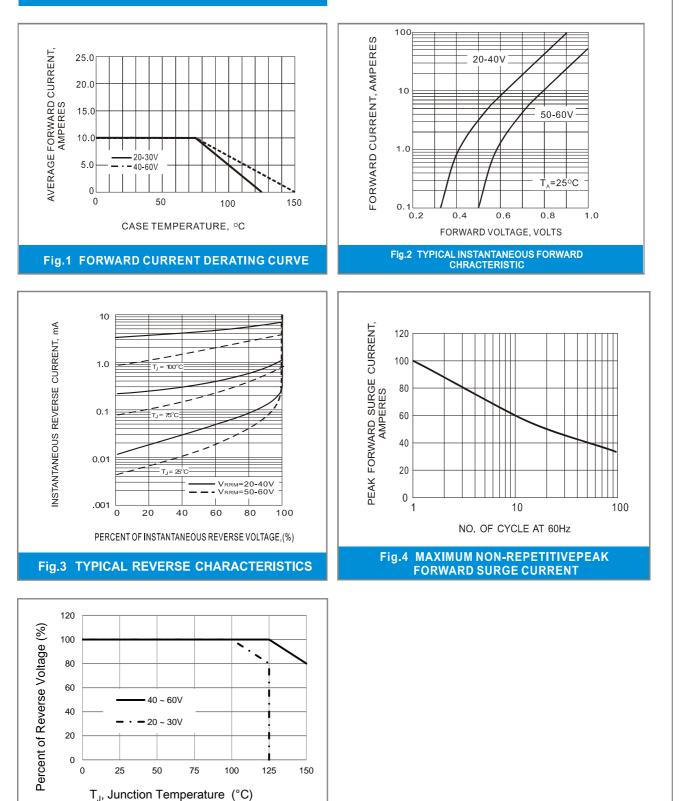


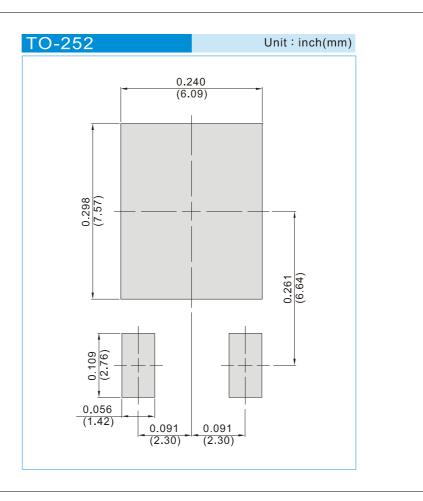
Fig.5 Operating Temperature Derating Curve





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### MOUNTING PAD LAYOUT

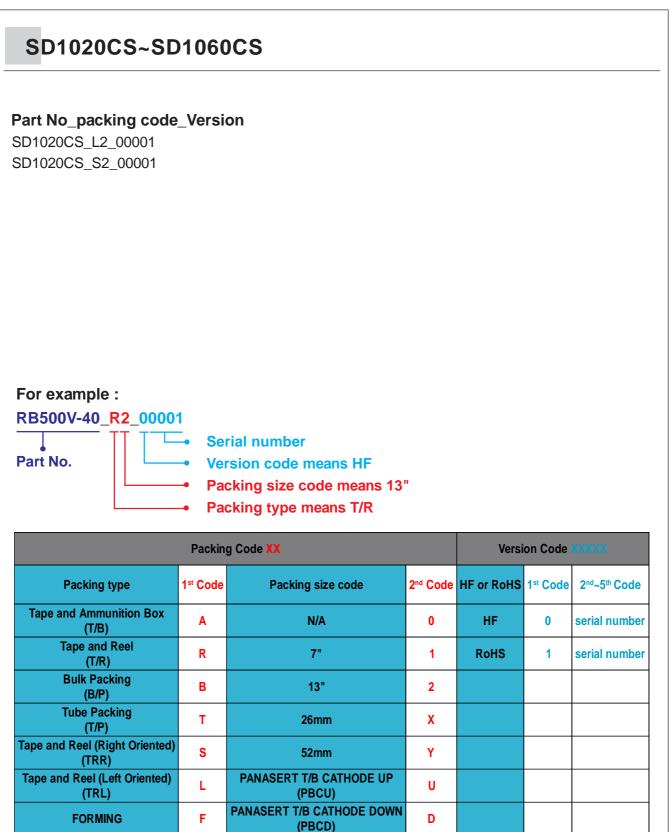


#### **ORDER INFORMATION**

Packing information

T/R - 3K per 13" plastic Reel









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