



SCHOTTKY BARRIER RECTIFIERS

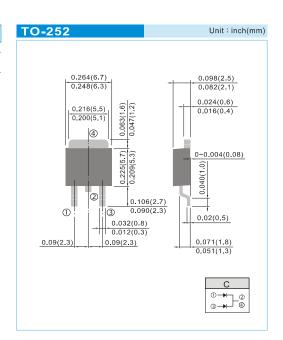
VOLTAGE 40 Volt CURRENT 10 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications in order to optimize board space
- · Low power loss, High efficiency
- · High surge capacity
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- · Acqire quality system certificate: TS16949
- AEC-Q101 qualified
- · Lead free in compliance with EU RoHS 2011/65/EU directives
- 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.



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	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	V
Maximum RMS Voltage	V _{RMS}	28	V
Maximum DC Blocking Voltage	V _{DC}	40	٧
Maximum Average Forward Rectified Current at T _c =75°C	I _{F(AV)}	10	А
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	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	mA
Typical Thermal Resistance	$R_{_{\theta JA}}$	5 80	°C / W
Operating Junction Temperature Range	TJ	-55 to +150	°C
Storage Temperature Range	Тѕтс	-55 to +150	°C

NOTES:

1. Both Bonding and Chip structure are available.

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RATING AND CHARACTERISTIC CURVES

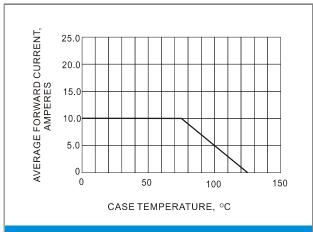


Fig.1-FORWARD CURRENT DERATING CURVE

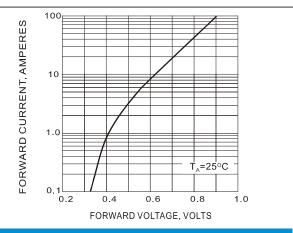


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHRACTERISTIC

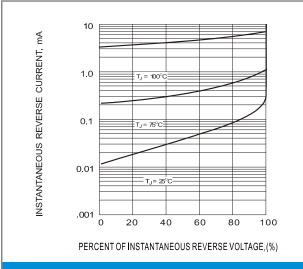


Fig.3- TYPICAL REVERSE CHARACTERISTICS

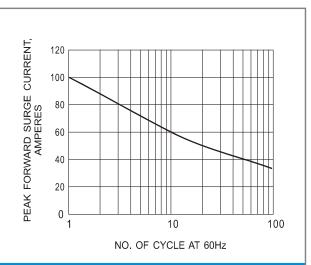
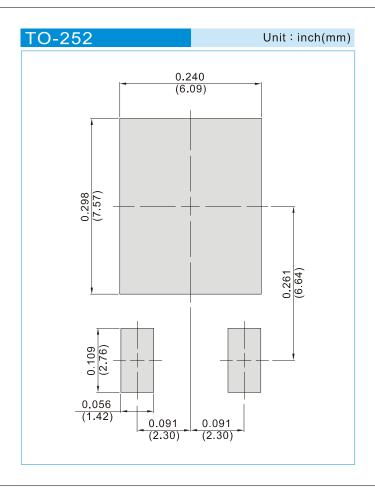


Fig.4-MAXIMUM NON-REPETITIVEPEAK FORWARD SURGE CURRENT





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 3K per 13" plastic Reel

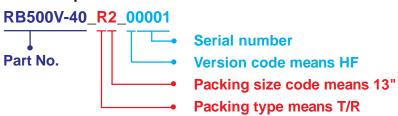




Part No_packing code_Version

SD1040CS-AU_T0_000A1

For example:



Packing Code XX			Version Code XXXXX			
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th Code
Tape and Ammunition Box (T/B)	Α	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	В	13"	2			
Tube Packing (T/P)	Т	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			





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