



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

MECHANICAL DATA

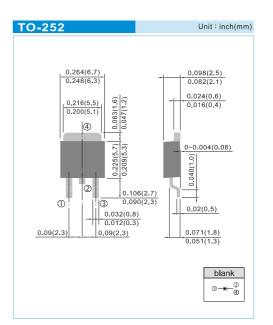
Case: TO-252 molded plastic

Terminals: Solder plated, solderable per MIL-STD-750, Method 2026

Polarity: As marking

Standard packaging: 16mm tape (EIA-481) Weight: 0.0104 ounces, 0.297grams.

Marking: Part number



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load.

PARAMETER	SYMBOL	VALUE	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	40	V
Maximum RMS Voltage	VRMS	28	V
Maximum DC Blocking Voltage	VR	40	V
Maximum Average Forward Current	l F(AV)	10	А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I FSM	200	А
Maximum Forward Voltage at 10A	VF	0.7	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	IR	50	μΑ
Typical Thermal Resistance (Note 1)	Reuc	4	°C / W
Operating Junction and Storage Temperature Range	ТJ,Тsтg	-55 to +150	°C

Note: 1. Mounted on infinite heatsink.





RATING AND CHARACTERISTIC CURVES

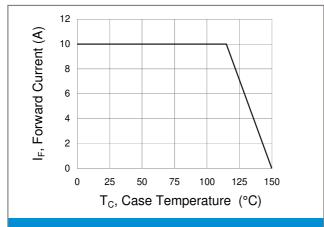


Fig.1 Forward Current Derating Curve

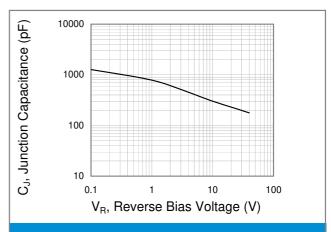


Fig.2 Typical Junction Capacitance

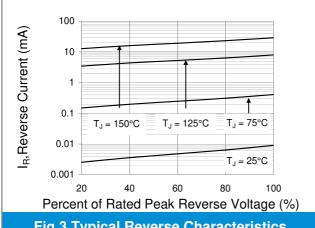


Fig.3 Typical Reverse Characteristics

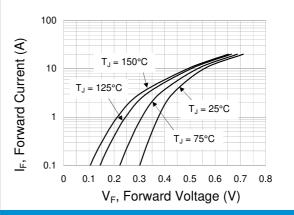
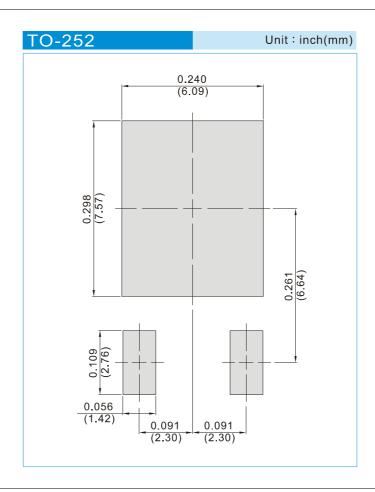


Fig.4 Typical Forward Characteristics





MOUNTING PAD LAYOUT



ORDER INFORMATION

· Packing information

T/R - 3K per 13" plastic Reel

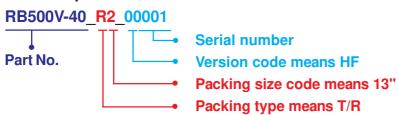




Part No_packing code_Version

BD1040S_L2_00001 BD1040S_S2_00001

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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