



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Voltage

40~200 V

Current

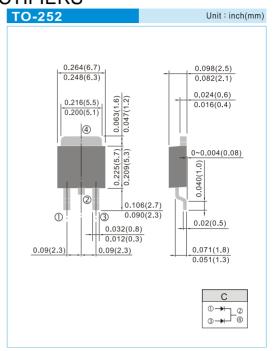
10 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
- For through hole applications
- Low power loss, High efficiency
- High surge capacity
- For use in low voltage, high frequency inverters free wheeling, and polarity protection applications
- 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)
- Approx. Weight: 0.0104 ounces, 0.297 grams
- Marking: Part number



Maximum Ratings (T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	BD1040CS	BD1045CS	BD1050CS	BD1060CS	BD1080CS	BD1090CS	BD10100CS	BD10150CS	BD10200CS	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	40	45	50	60	80	90	100	150	200	V
Maximum rms voltage		V _{RMS}	28	31.5	35	42	56	63	70	105	140	V
Maximum dc blocking voltage		V_R	40	45	50	60	80	90	100	150	200	V
Maximum average forward rectified current		I _{F(AV)}	10								Α	
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	100							А		
Maximum forward voltage at 5A per diode		V _F	0.7 0.75 0.8 0.9				.9	٧				
Maximum dc reverse current at	T _J =25 °C		0.05									mA
rated dc blocking voltage	T _J =100 °C	I _R		20								
Typical thermal resistance		R _{⊕JC}	3							°C/W		
Operating junction and storage temperature range		T_J, T_STG	-55 to +150 -65 to +175						°C			

Note: Both Bonding and Chip structure are available.





TYPICAL CHARACTERISTIC CURVES

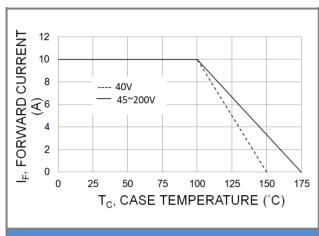


Fig.1 Forward Current Derating Curve

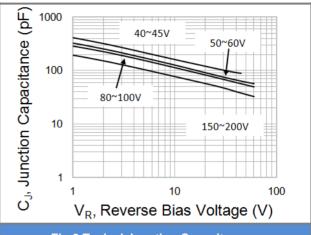


Fig.2 Typical Junction Capacitance

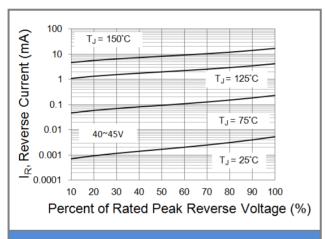


Fig.3 Typical Reverse Characteristics

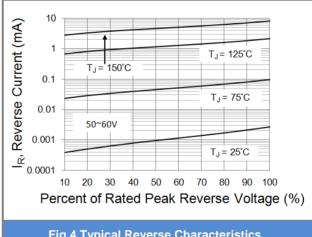


Fig.4 Typical Reverse Characteristics

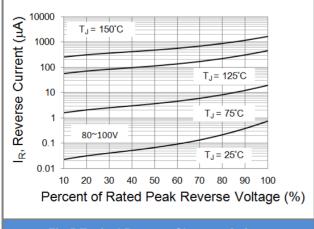


Fig.5 Typical Reverse Characteristics

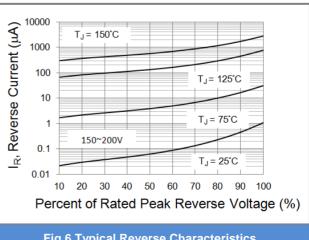


Fig.6 Typical Reverse Characteristics





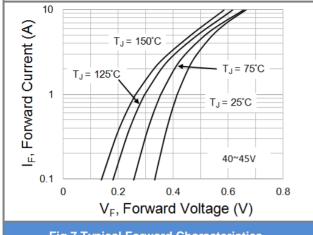


Fig.7 Typical Forward Characteristics

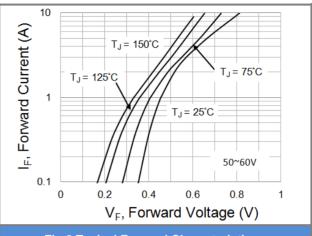
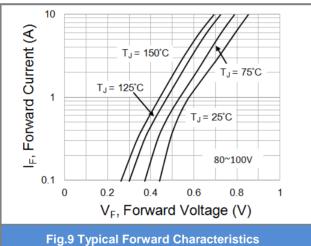


Fig.8 Typical Forward Characteristics



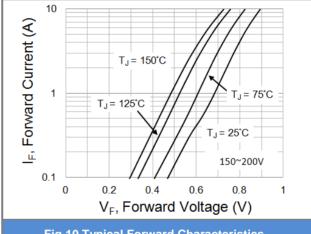


Fig.10 Typical Forward Characteristics

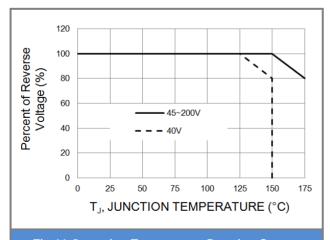


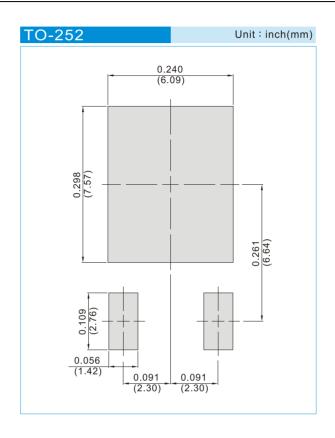
Fig.11 Operating Temperature Derating Curve

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MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing information
 T/R – 3K per 13" plastic Reel

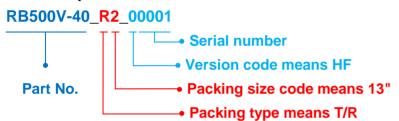




Part No_packing code_Version

BD1040CS_L2_00001 BD1040CS_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)	A	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)	٦	PANASERT T/B CATHODE UP (PBCU)	U						
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D						





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