



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Voltage

40~200 V

Current

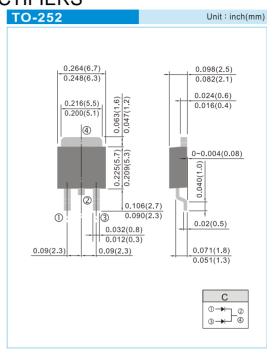
6 A

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
- High temperature soldering guaranteed:260°C/10 seconds at terminals
- 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	BD640CS	BD645CS	BD650CS	BD660CS	BD680CS	BD690CS	BD6100CS	BD6150CS	BD6200CS	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)}	6							А		
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	75							А		
Maximum forward voltage at 3A per diode		V _F	0.7 0.75 0.8 0.9			.9	V					
Maximum dc reverse current at	TJ=25°C		0.05									mA
rated dc blocking voltage	TJ=100°C	I _R	20									
Typical thermal resistance		R _{⊕JC}	5							°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.





RATING AND CHARACTERISTIC CURVES

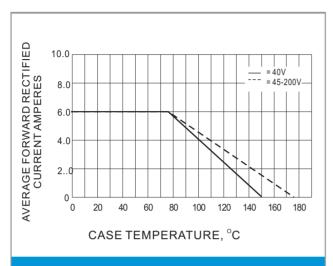


Fig.1- FORWARD CURRENT DERATING CURVE

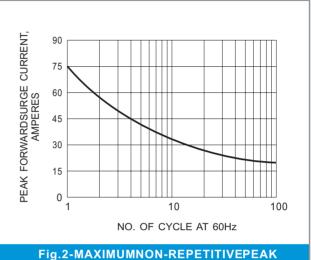


Fig.2-MAXIMUMNON-REPETITIVEPEAK FORWARD SURGECURRENT

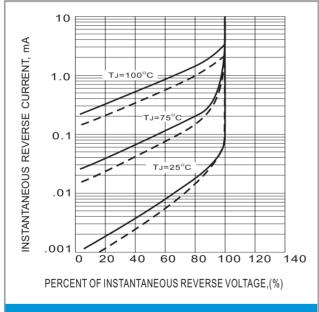


Fig.3-TYPICAL REVERSE CHARACTERISTIC

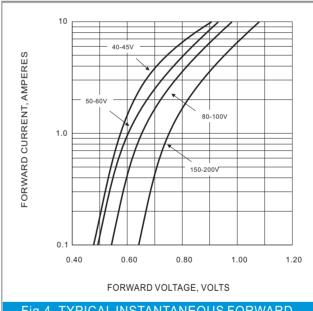
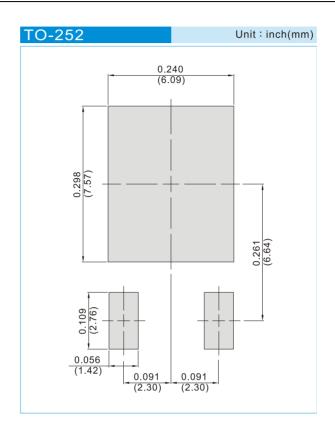


Fig.4-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC





MOUNTING PAD LAYOUT



ORDER INFORMATION

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

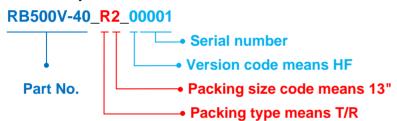




Part No_packing code_Version

BD640CS_L2_00001 BD640CS_S2_00001

For example:



	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	Υ			
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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