



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Voltage

40~200 V

Current

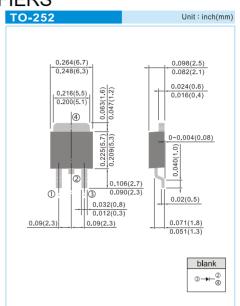
8 A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O.
- ← For surface mounted applications in order to optimize board space
- C Low power loss, High efficiency
- High surge capacity
- C 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
- C 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



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

PARAMETER		SYMBOL	BD840S	BD845S	BD850S	BD860S	BD880S	BD890S	BD8100S	BD8150S	BD8200S	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)}	8								Α	
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	85							Α		
Maximum forward voltage at 8A		V _F	0.7 0.75 0.8 0.9				.9	V				
Maximum dc reverse current at	T _J =25 °C		0.05									
rated dc blocking voltage	T _J =100 °C	I _R		20								mA
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		





RATING AND CHARACTERISTIC CURVES

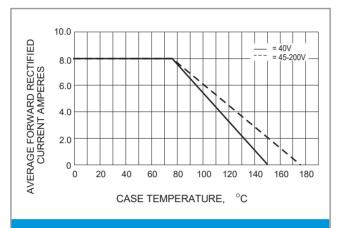


Fig.1- FORWARD CURRENT DERATING CURVE

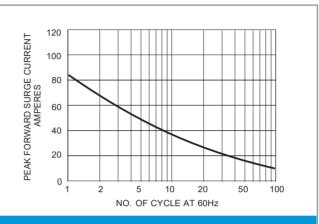
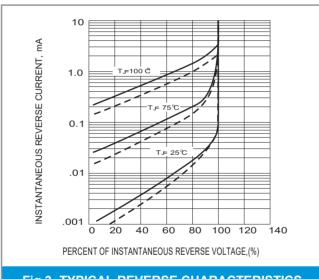


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT





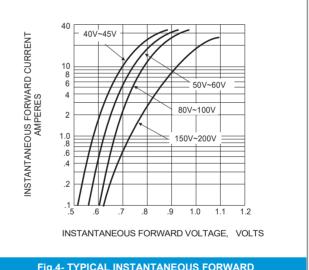
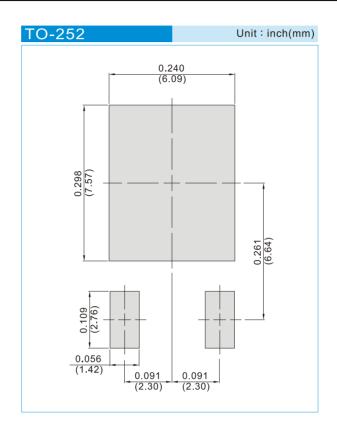


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS





MOUNTING PAD LAYOUT



ORDER INFORMATION

Packing informationT/R – 3K per 13" plastic Reel

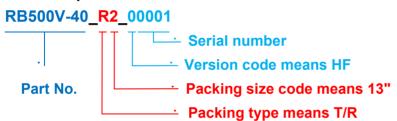




Part No_packing code_Version

BD840S_L2_00001 BD840S_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	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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