



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Voltage

20~60 V

Current

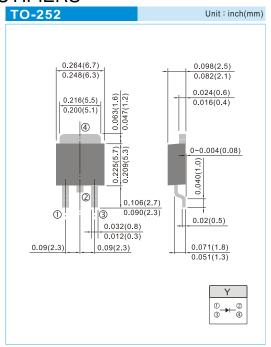
8 A

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
- 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	SD820YS	SD830YS	SD840YS	SD850YS	SD860YS	UNIT
Maximum repetitive peak reverse voltage		V _{RRM}	20 30 4		40	50	60	٧
Maximum rms voltage		V_{RMS}	14 21 28		28	35	42	V
Maximum dc blocking voltage		V_R	20 30 40		40	50	60	٧
Maximum average forward rectified current		I _{F(AV)}	8					
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	0.55			0.75		>
Maximum dc reverse current	T _J =25 °C		0.2			0.1		0
at rated dc blocking voltage	T _J =100 °C	I _R		20		20		mA
Typical thermal resistance		R _{⊚JC}	5					°C/W
		$R_{\Theta JA}$	80					
Operating junction temperature range		TJ	-55 to	+125		-55 to +150		°C
Storage temperature range		T _{STG}	-55 to +150					လူ





RATING AND CHARACTERISTIC CURVES

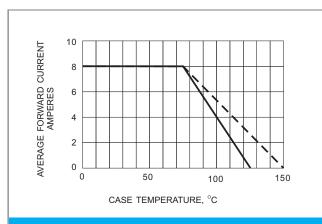


Fig.1- FORWARD CURRENT DERATING CURVE

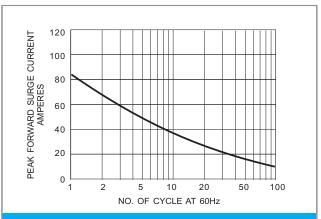


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

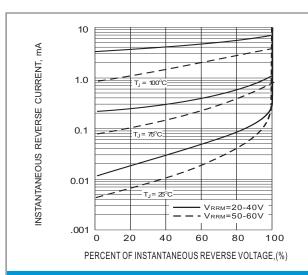


Fig.3- TYPICAL REVERSE CHARACTERISTICS

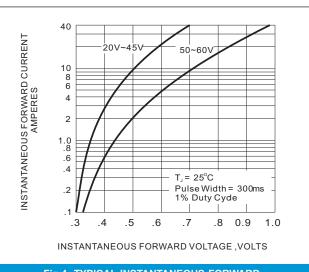


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

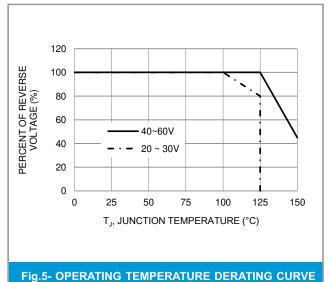
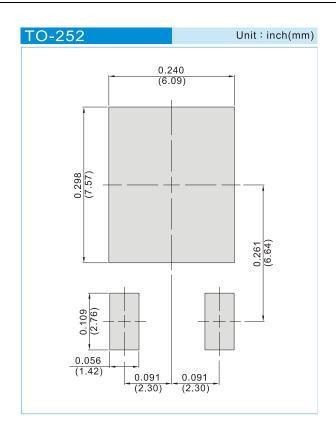


FIG.5- OPERATING TEMPERATURE DERATING CURVE





MOUNTING PAD LAYOUT



ORDER INFORMATION

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

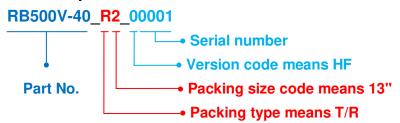




Part No_packing code_Version

SD820YS_L2_00001 SD820YS_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)	L	PANASERT T/B CATHODE UP (PBCU)	U					
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D					





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