



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Voltage

20~60 V

Current

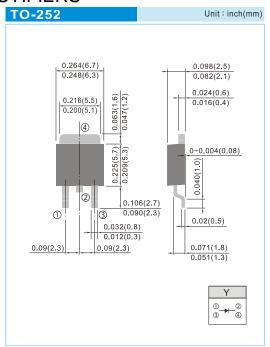
5 A

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
- Approx. Weight: 0.0104 ounces, 0.297 grams
- Marking: Part number



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

PARAMETER		SYMBOL	SD520YS	SD530YS	SD540YS	SD550YS	SD560YS	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	20 30		40	50	60	V
Maximum rms voltage		V_{RMS}	14 21 28		28	35	42	٧
Maximum dc blocking voltage		V_R	20 30 40		40	50	60	V
Maximum average forward rectified current		I _{F(AV)}	5					Α
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		I _{FSM}	100					А
Maximum forward voltage at 5A		V _F	0.55			0.75		V
Maximum dc reverse current	T _J =25 °C		0.2			0.1		mA
at rated dc blocking voltage	T _J =100 °C	I _R	20			20		
Typical thermal resistance		$R_{\Theta JC}$	5				°C/W	
Operating junction temperature range		TJ	-55 to +125			-55 to +150		
Storage temperature range		T _{STG}	-55 to +150					°C





RATING AND CHARACTERISTIC CURVES

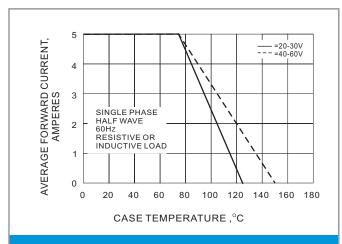


Fig. 1- FORWARD CURRENT DERATING CURVE

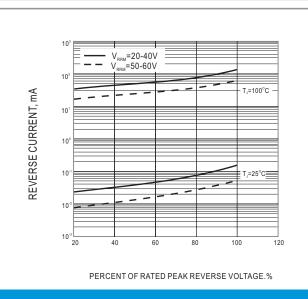


Fig.3-TYPICAL REVERSE CHARACTERISTIC

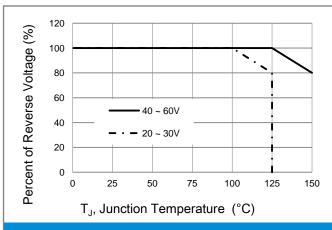


Fig.5 Operating Temperature Derating Curve

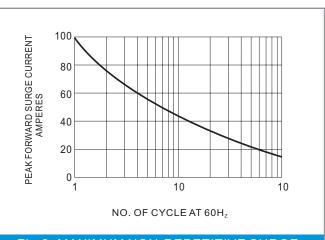


Fig.2 -MAXIMUM NON-REPETITIVE SURGE CURRENT

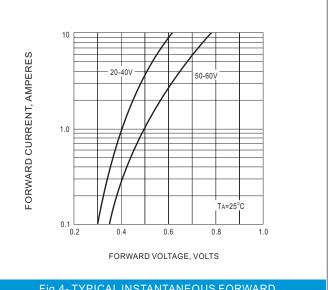
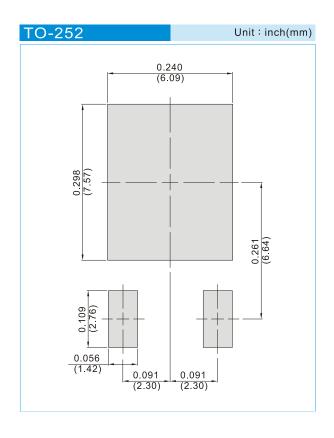


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC





MOUNTING PAD LAYOUT



ORDER INFORMATION

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

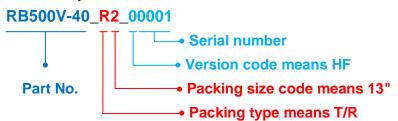




Part No_packing code_Version

SD520YS_L2_00001 SD520YS_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	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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