



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

Voltage

20~60 V

Current

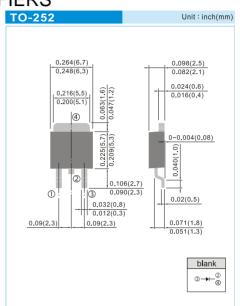
3 A

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	SD320S	SD330S	SD340S	SD350S	SD360S	UNIT
Maximum repetitive peak reverse voltage	V_{RRM}	20	30	40	50	60	V
Maximum rms voltage	V_{RMS}	14 21 28			35	42	V
Maximum dc blocking voltage	V _R	20	30	40	50	60	٧
Maximum average forward rectified current	I _{F(AV)}	3					Α
Peak forward surge current: 8.3ms single half sine wave superimposed on rated load	e- I _{FSM}	75					А
Maximum forward voltage at 3A per diode (Note 1)) V _F	0.5 0.64				64	V
Maximum dc reverse current T _J =25 °C		0.2			0.1		
at rated dc blocking voltage T _J =100 °C	I _R		20	20		mA	
Typical thermal resistance (Note 2)	R _{⊝JC}	5				°C/W	
Operating junction and storage temperature range	T _J ,T _{STG}	-55 to	+125	-55 to +150	°C		

Note:

- 1. Pulse Test with PW=300µsec, 1% Duty Cycle
- 2. Mounted on P.C. Board with 8mm² (0.013mm thick) copper pad areas.





RATING AND CHARACTERISTIC CURVES

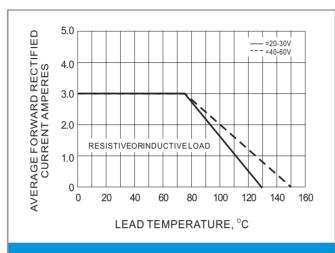


Fig.1- FORWARD CURRENT DERATING CURVE

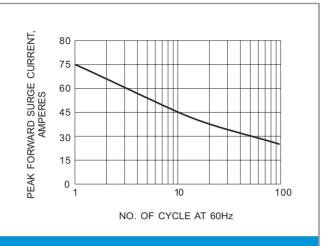


Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

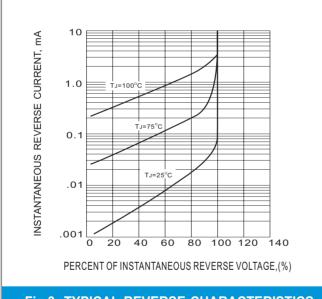


Fig.3- TYPICAL REVERSE CHARACTERISTICS

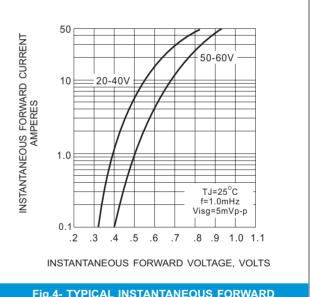
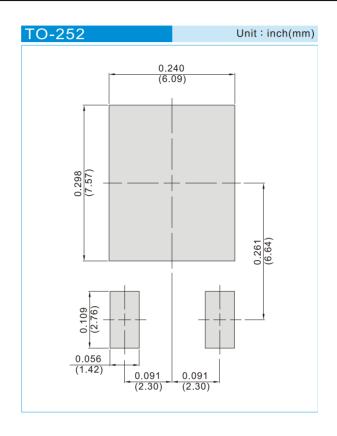


Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS





MOUNTING PAD LAYOUT



ORDER INFORMATION

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

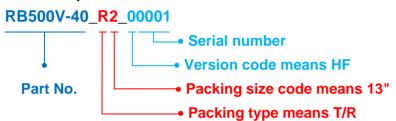




Part No_packing code_Version

SD320S_L2_00001 SD320S_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)	Τ.	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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