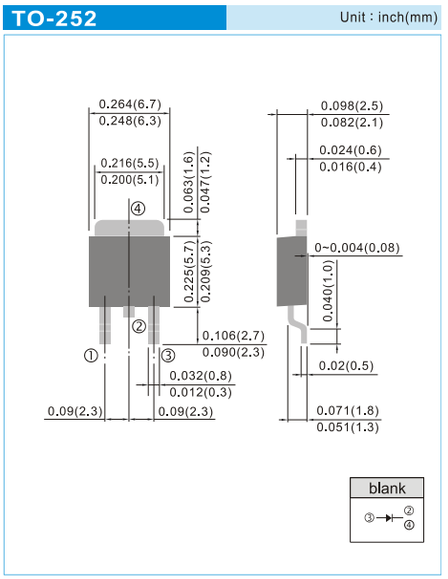
SD320S~SD360S

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	V
Maximum average forward rectified current		$I_{F(AV)}$	3					A
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		I_{FSM}	75					A
Maximum forward voltage at 3A per diode (Note 1)		V_F	0.5			0.64		V
Maximum dc reverse current	T_J=25°C	I_R	0.2			0.1		mA
at rated dc blocking voltage	T_J=100°C		20			20		
Typical thermal resistance (Note 2)		$R_{\theta JC}$	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 8mm^2 (0.013mm thick) copper pad areas.

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RATING AND CHARACTERISTIC CURVES

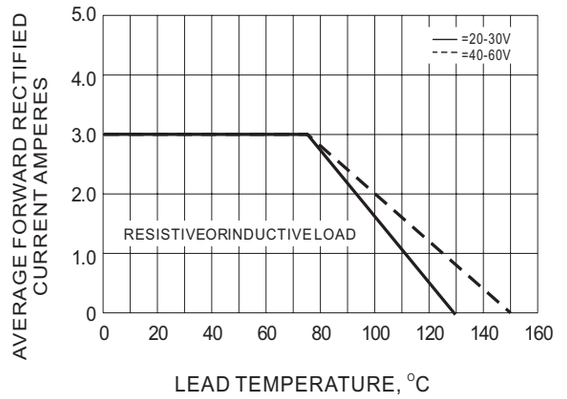

Fig.1- FORWARD CURRENT DERATING CURVE

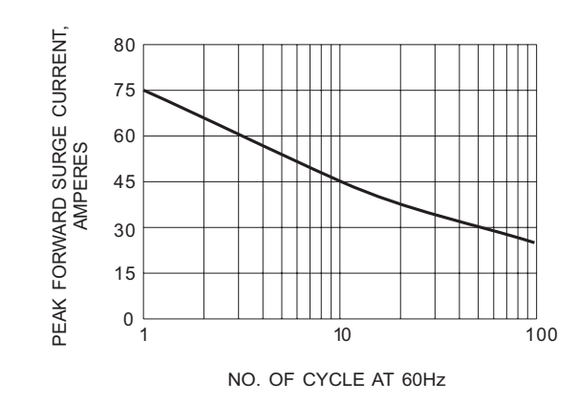

Fig.2- MAXIMUM NON - REPETITIVE SURGE CURRENT

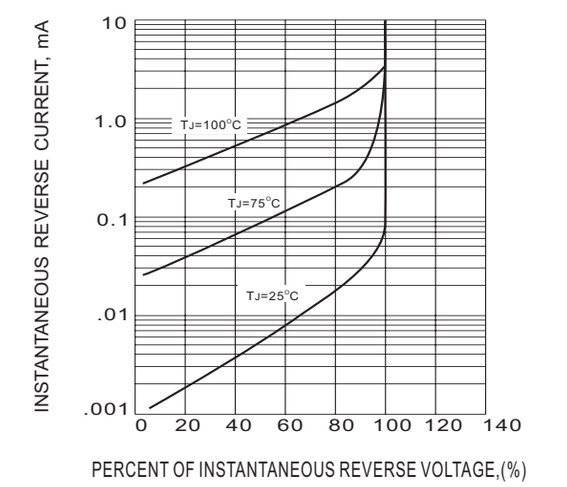

Fig.3- TYPICAL REVERSE CHARACTERISTICS

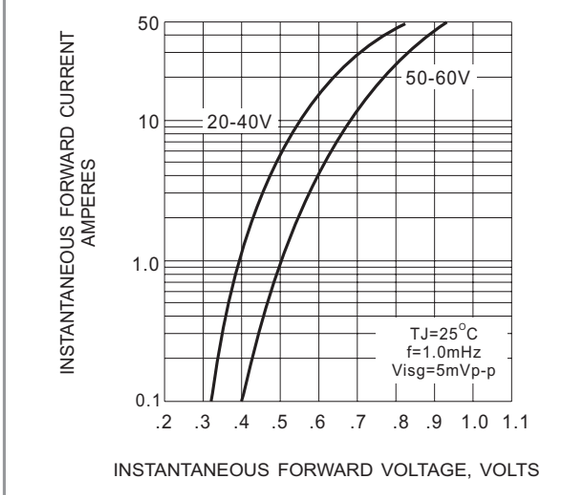

Fig.4- TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

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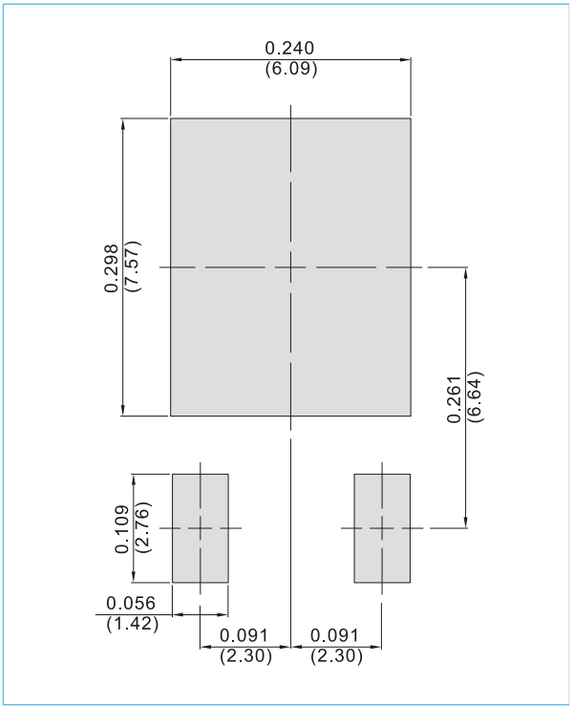
MOUNTING PAD LAYOUT

TO-252 Unit : inch(mm)



ORDER INFORMATION

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

SD320S~SD360S

Part No_packing code_Version

SD320S_L2_00001

SD320S_S2_00001

For example :

RB500V-40_R2_00001

- Part No.
- Packing type means T/R
- Packing size code means 13"
- Version code means HF
- Serial number

Packing Code XX				Version Code XXXXX		
Packing type	1st Code	Packing size code	2nd Code	HF or RoHS	1st Code	2nd~5th 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)	B	13"	2			
Tube Packing (T/P)	T	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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