



SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

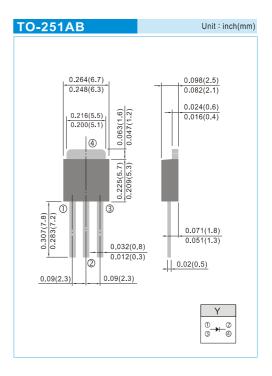
VOLTAGE 20 to 60 Volt CURRENT 3.0 Ampere

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- · For surface mounted applications
- · Low profile package
- · 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

MECHANICAL DATA

- Case: TO-251AB molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: As marking
- Weight: 0.0104 ounces, 0.297grams.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

PARAMETER	SYMBOL	SD320YT	SD330YT	SD340YT	SD350YT	SD360YT	UNITS
Maximum Recurrent Peak Reverse Voltage		20	30	40	50	60	V
Maximum RMS Voltage		14	21	28	35	42	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	50	60	V
Maximum Average Forward Rectified Current at T _c =75°C	I _{F(AV)}	3.0					А
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	75					А
Maximum Forward Voltage at Ļ=3.0A(Note 1)	V _F	0.50		0.64		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage T_{j} =25°C T_{j} =100°C	I _R	0.2 20		0.1 20		mA	
Typical Thermal Resistance (Note 2)	R _{eJC}	5.0			°C / W		
Operating Junction and Storage Temperature Rang	T _J ,T _{STG}	-55 to	+ 125	-55 to + 150			°C

NOTES:

- 1. Pulse Test with PW =300µsec, 1% Duty Cycle.
- 2. Mounted on P.C. Board with $8.0 mm^2 \ \, (.013 mm \ thick)$ copper pad areas.





RATING AND CHARACTERISTIC CURVES

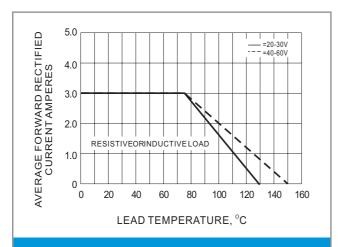


Fig.1 FORWARD CURRENT DERATING CURVE

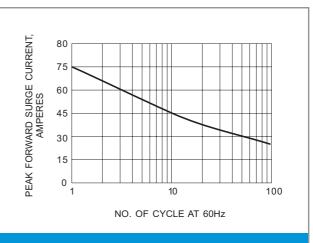


Fig.2 MAXIMUM NON - REPETITIVE SURGE CURRENT

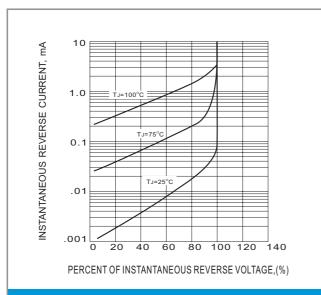


Fig.3 TYPICAL REVERSE CHARACTERISTICS

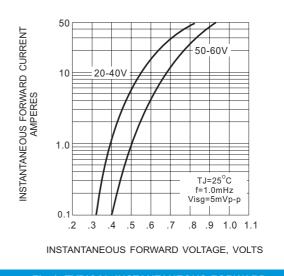


Fig.4 TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

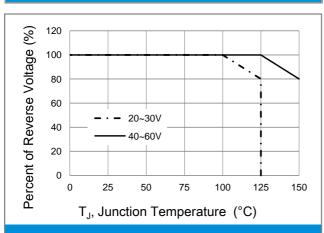


Fig.5 Operating Temperature Derating Curve





Part No_packing code_Version

SD320YT_T0_00001 SD320YT_T0_10001

For example : RB500V-40_R2_00001 Part No. Serial number Version code means HF Packing size code means 13" Packing type means T/R

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)	Α	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)	Ø	52mm	Y				
Tape and Reel (Left Oriented) (TRL)	Ш	PANASERT T/B CATHODE UP (PBCU)	U				
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D				





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