

# SD320YT~SD360YT

### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

 VOLTAGE
 20 to 60 Volt
 CURRENT
 3.0 Ampere

 FEATURES

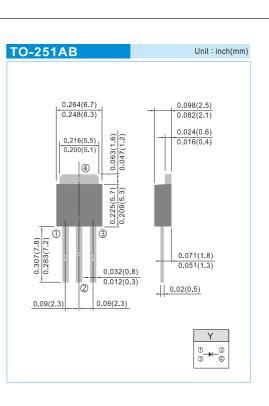
 • Plastic package has Underwriters Laboratory Flammability Classification 94V-O

 • 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 <sub>DC</sub>	20	30	40	50	60	V
Maximum Average Forward Rectified Current at $T_c = 75^{\circ}C$	I <sub>F(AV)</sub>	3.0					A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load	I <sub>fsm</sub>	75					A
Maximum Forward Voltage at Ļ=3.0A(Note 1)	V <sub>F</sub>	0.50		0.64		V	
Maximum DC Reverse Current at Rated DC Blocking Voltage $\begin{array}{c} T_{J}{=}25^{\circ}C\\ T_{J}{=}100^{\circ}C \end{array}$	I <sub>R</sub>	0.2 20		0.1 20		mA	
Typical Thermal Resistance (Note 2)	R <sub>eJC</sub>	5.0			°C / W		
Operating Junction and Storage Temperature Rang	T_,T <sub>stg</sub>	-55 to	+ 125	-55 to + 150			°C

#### NOTES:

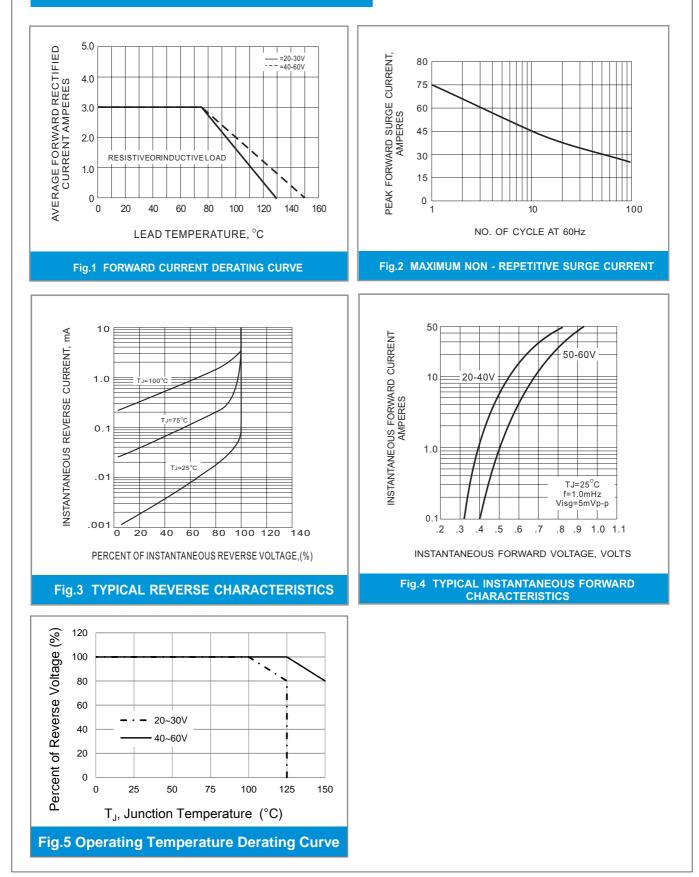
1. Pulse Test with PW =300µsec, 1% Duty Cycle.

2. Mounted on P.C. Board with 8.0mm<sup>2</sup> (.013mm thick) copper pad areas.



## SD320YT~SD360YT

### **RATING AND CHARACTERISTIC CURVES**







## Part No\_packing code\_Version

SD320YT~SD360YT

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 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> 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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