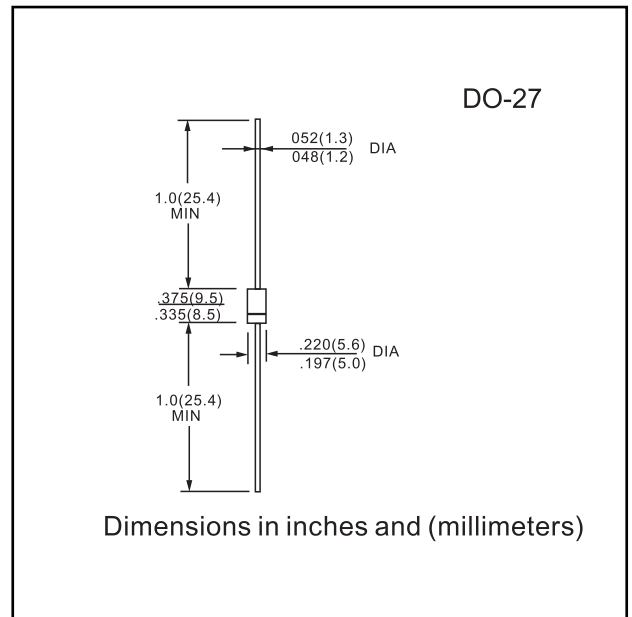


FEATURES

- Metal-Semiconductor junction with guard ring
- Epitaxial construction
- Low forward voltage drop
- High current capability
- The plastic material carries UL recognition 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- Case : JEDEC DO-201AD molded plastic
- Polarity : Color band denotes cathode
- Weight : 1.071grams
- Mounting position : Any



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	SB 320	SB 330	SB 340	SB 350	SB 360	SB 380	SB 3100	SB 3150	SB 3200	UNIT	
Maximum repetitive peak reverse voltage	VRRM	20	30	40	50	60	80	100	150	200	V	
Maximum RMS voltage	VRMS	14	21	28	35	42	56	70	105	140	V	
Maximum DC blocking voltage	VDC	20	30	40	50	60	80	100	150	200	V	
Maximum average forward rectified current	IF	3.0									A	
Peak forward surge current, 8.3ms single half sine-wave superimposed on rated load	IFSM	80.0									A	
Maximum instantaneous Forward Voltage @3.0A	VF	0.5		0.70		0.85		0.87		0.9	V	
Maximum DC Reverse Current @TA=25°C	IR	0.5					0.2					mA
at Rated DC Blocking Voltage @TA=100°C		10.0					5.0					
Typical Junction Capacitance	CJ	180		150		110		100		80	pF	
Typical Thermal Resistance	RθJA RθJC	60 15									°C/W	
Operating Temperature Range	TJ	-55 to +125									°C	
Storage Temperature Range	TSTG	-55 to +150									°C	

RATINGS AND CHARACTERISTIC CURVES

SB320 THRU SB3200

FIG. 1-TYPICAL FORWARD CURRENT DERATING CURVE

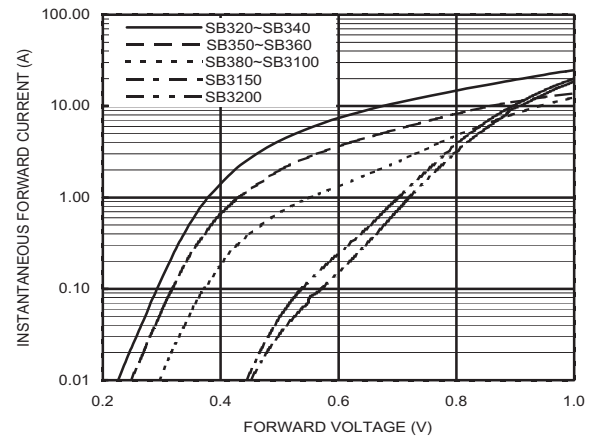
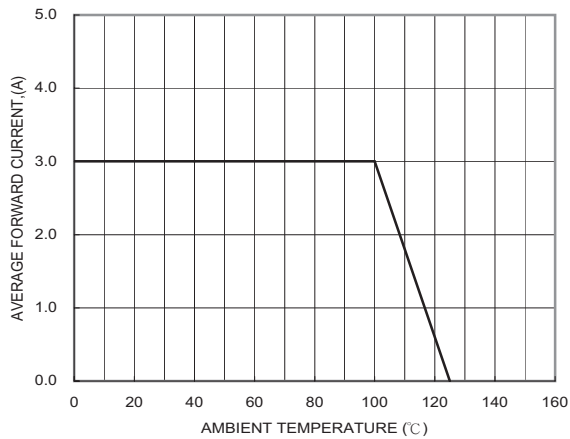


FIG. 3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

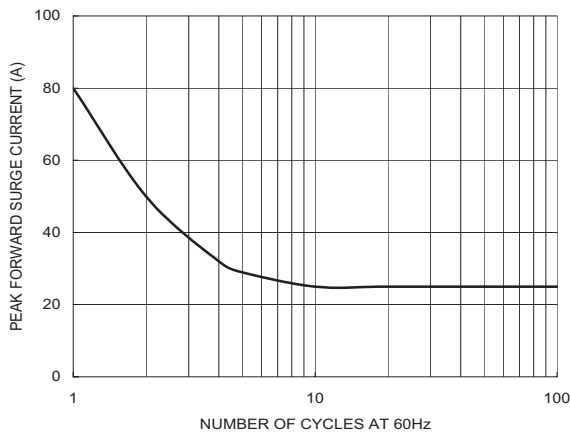


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

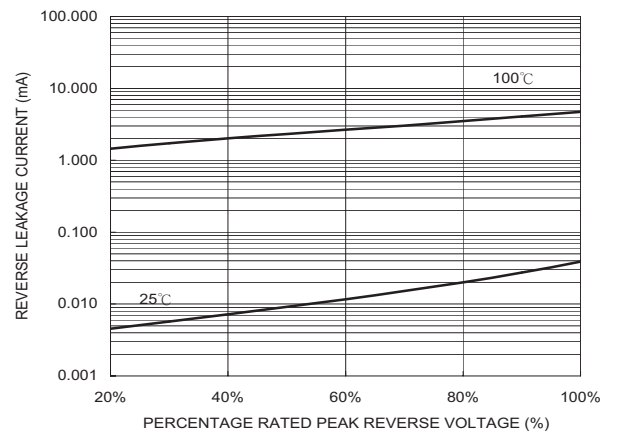


FIG. 5-TYPICAL JUNCTION CAPACITANCE

