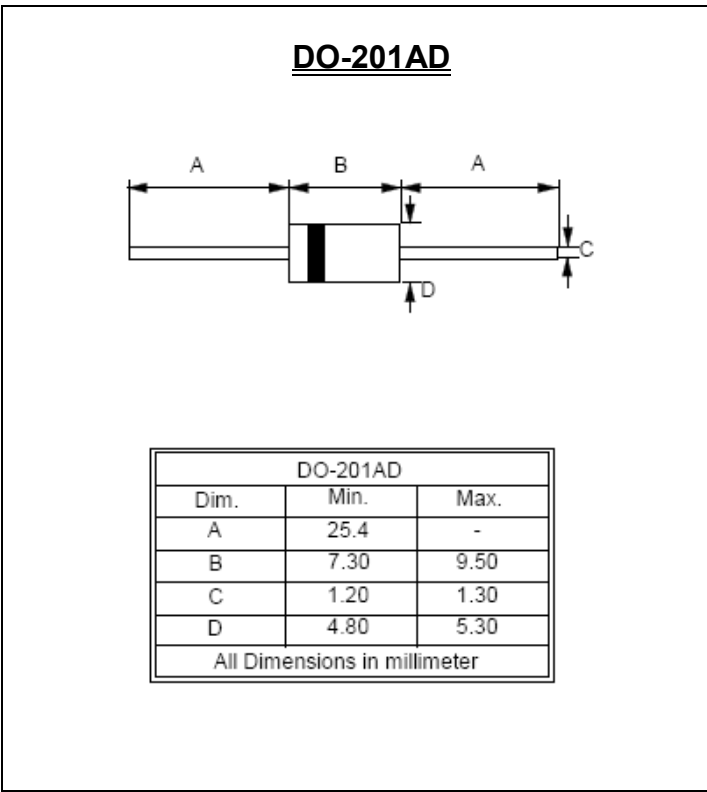


SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 20 to 40 Volts
FORWARD CURRENT - 3.0 Amperes

- 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 application
- MECHANICAL DATA**
- Case: JEDEC DO-201AD molded plastic
 - Polarity: Color band denotes cathode
 - Weight: 0.04 ounces, 1.1 grams
 - 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%.

CHARACTERISTICS	SYMBOL	SB320	SB330	SB340	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	V
Maximum RMS Voltage	V _{RMS}	14	21	28	V
Maximum DC Blocking Voltage	V _{DC}	20	30	40	A
Maximum Average Forward Rectified Current	I _{AV}	3.0			A
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	80			A
Maximum Forward Voltage at 3.0A DC	V _F	0.50			V
Maximum DC Reverse Current @T _j =25°C at Rated DC Blocking Voltage @T _j =100°C	I _R	0.5 20			mA
Typical Thermal Resistance (Note 1)	R _{θJA} R _{θJL} R _{θJC}	30 10 10			°C/W
Typical Junction Capacitance (Note 2)	C _j	200			pF
Operating Temperature Range	T _j	-55 to +125			°C
Storage Temperature Range	T _{STG}	-55 to +150			°C

Note: (1) Thermal Resistance Junction to Ambient, Lead and Case.
 (2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

FIG.1- FORWARD CURRENT DERATING CURVE

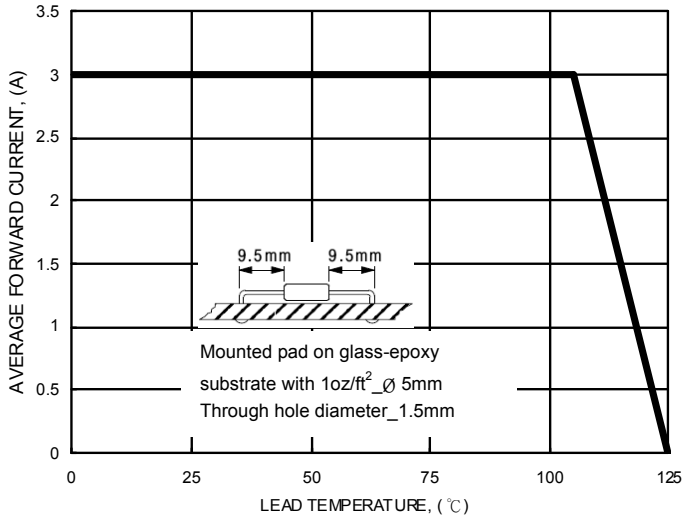


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

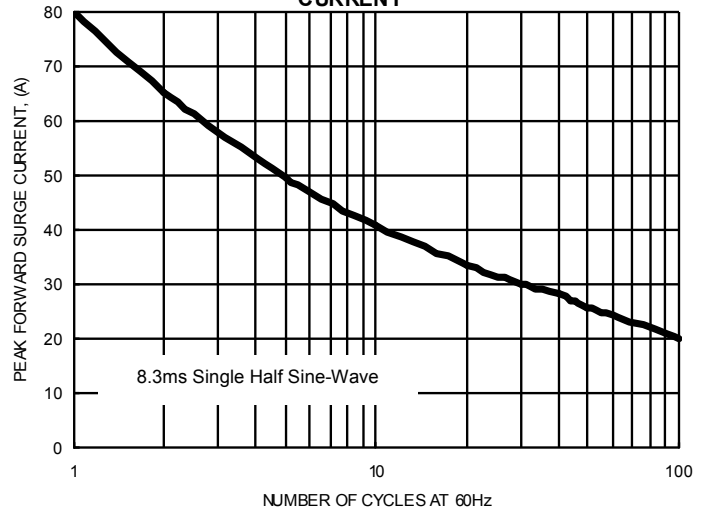


FIG.3- TYPICAL JUNCTION CAPACITANCE

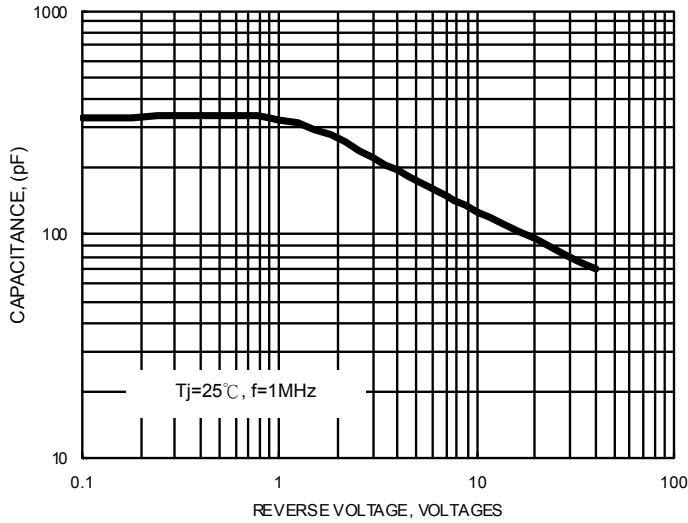


FIG.4- TYPICAL FORWARD CHARACTERISTICS

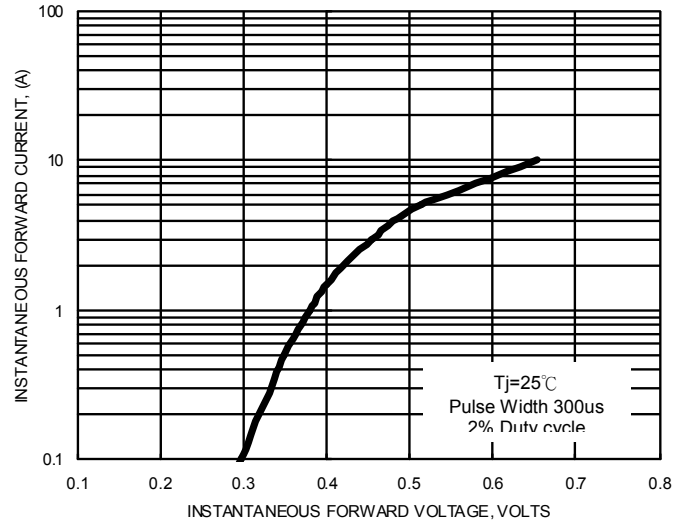


FIG.5- TYPICAL REVERSE CHARACTERISTICS

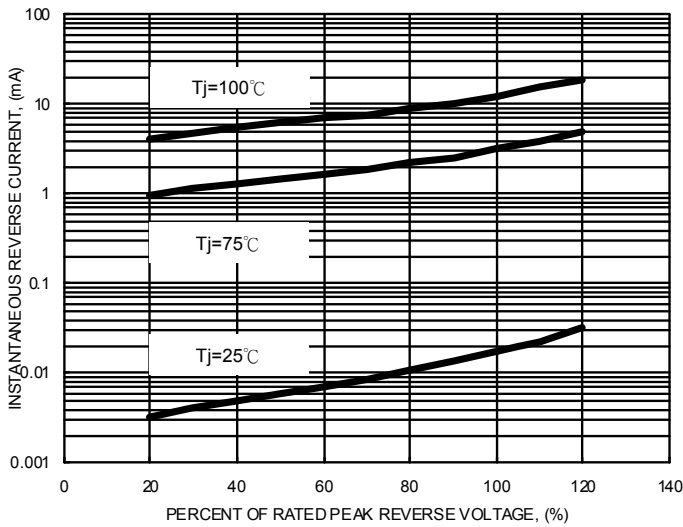


FIG.6- DC REVERSE VOLTAGE DERATING CURVE

