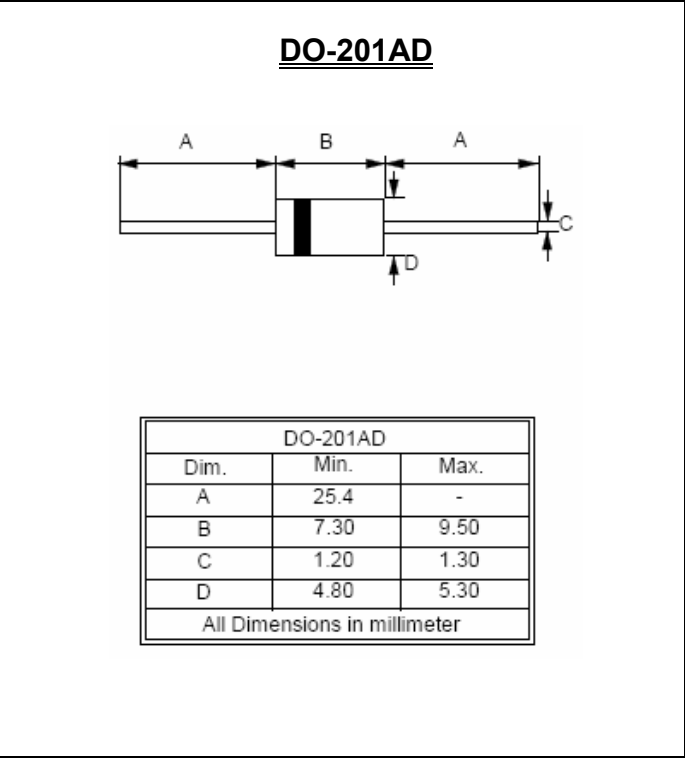


SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 60 Volts
FORWARD CURRENT - 5.0 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
 - Component in accordance to RoHs 2002/95/EC



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS	SYMBOL	SB560L	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	60	V
Maximum RMS Voltage	V_{RMS}	42	V
Maximum DC Blocking Voltage	V_{DC}	60	V
Maximum Average Forward Rectified Current	I_{AV}	5.0	A
Peak Forward Surge 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	150	A
Maximum Forward Voltage at 5.0A DC	V_F	0.55	V
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	@T _j =25°C	0.1
		@T _j =100°C	20
Thermal Resistance, Junction to Lead (Note 1)	$R_{\theta JL}$	8	°C/W
Thermal Resistance, Junction to Case (Note 1)	$R_{\theta JC}$	10	°C/W
Thermal Resistance, Junction to Ambient (Note 1)	$R_{\theta JA}$	30	°C/W
Typical Junction Capacitance (Note 2)	C_j	430	pF
Operating Junction Temperature Range	T_j	-55 to +125	°C
Storage Temperature Range	T_{STG}	-55 to +150	°C

Note : (1) Unit mounted on glass-epoxy substrate with 1oz/ft² 05mm
(2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC.

FIG.1- FORWARD CURRENT DERATING CURVE

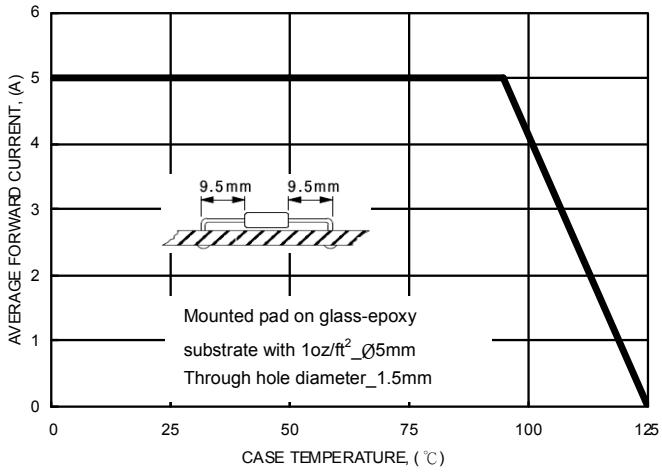


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

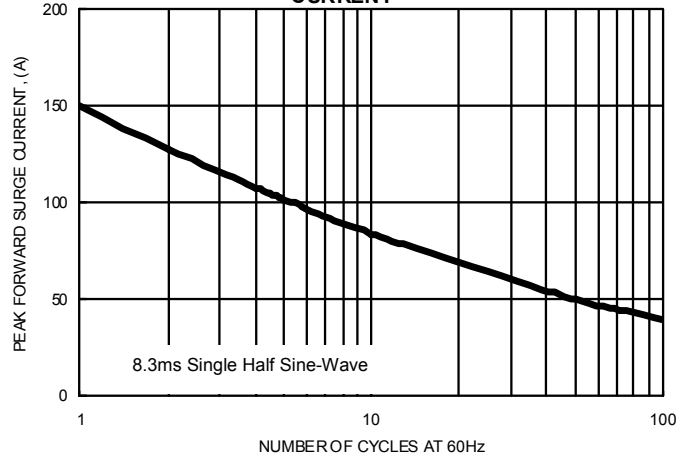


FIG.3- TYPICAL JUNCTION CAPACITANCE

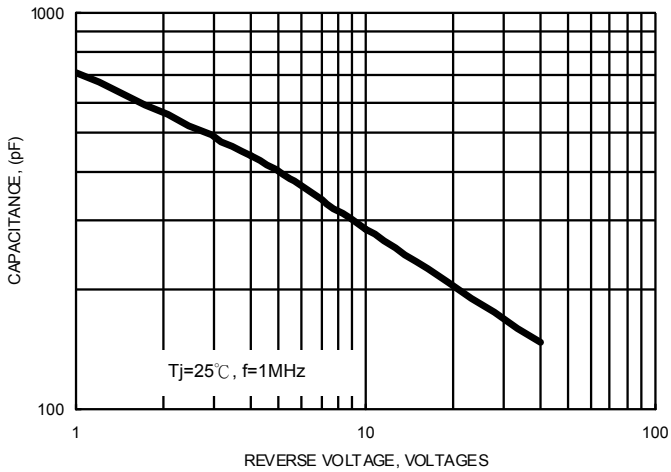


FIG.4- TYPICAL FORWARD CHARACTERISTICS

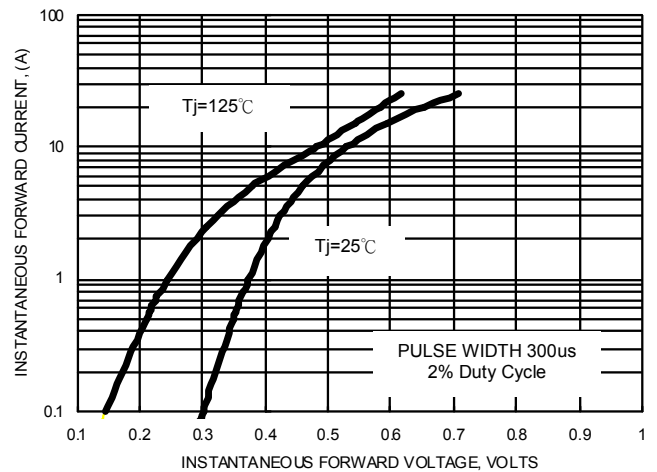


FIG.5- TYPICAL REVERSE CHARACTERISTICS

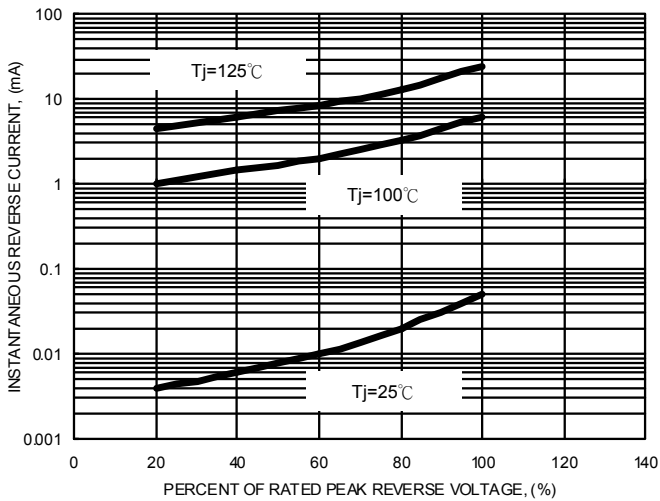
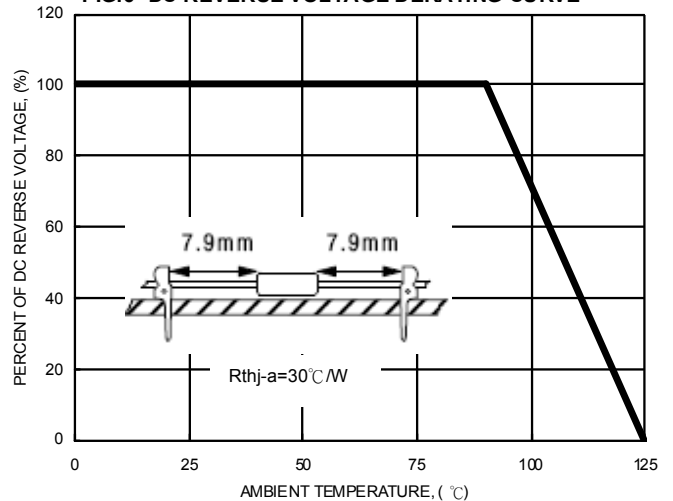


FIG.6- DC REVERSE VOLTAGE DERATING CURVE



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