

DATA SHEET

SS32B SERIES

SCHOTTKY BARRIER RECTIFIER

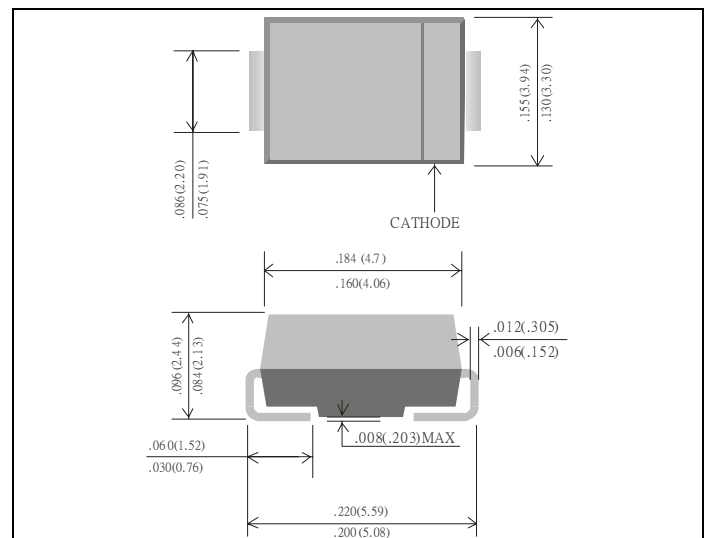
VOLTAGE 20~100 Volts **CURRENT** 3.0 Ampere

FEATURES

- FOR SURFACE MOUNTED APPLICATIONS
- LOW PROFILE PACKAGE
- BUILT-IN STRAIN RELIEF
- EASY PICK AND PLACE
- PLASTIC MATERIAL USED CARRIES UNDERWRITERS LABORATORY CLASSIFICATION 94 V-0
- EXTREMELY LOW V_F
- MAJORITY CARRIER CONDUCTION
- HIGH TEMPERATURE SOLDERING : 260°C/10 SECONDS AT TERMINALS

MECHANICAL DATA

- CASE : MOLDED PLASTIC
- TERMINALS : SOLDER PLATED
- POLARITY : INDICATED BY CATHODE BAND
- WEIGHT : 0.093GRAMS



CASE : DO-214AA(SMB)

DIMENSIONS IN INCHES AND (MILLIMETERS)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

R RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	SS32B	SS33B	SS34B	SS35B	SS36B	SS38B	SS39B	SS310B	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	20	30	40	50	60	80	90	100	V
MAXIMUM RMS VOLTAGE	V_{RMS}	14	21	28	35	42	56	63	70	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	20	30	40	50	60	80	90	100	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT .375" (9.5mm) LEAD LENGTH (SEE FIG.1)	I_O	3.0								A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	80								A
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150								°C
OPERATING TEMPERATURE RANGE	T_J	-55 TO +125				-55 TO +150				°C
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta JA}$	100				20				°C/W
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta JL}$	20				100				°C/W

ELECTRICAL CHARACTERISTICS ($A_T T_A = 25^\circ\text{C}$ UNLESS OTHERWISE NOTED)

PARAMETER	SYMBOL	SS32B	SS33B	SS34B	SS35B	SS36B	SS38B	SS39B	SS310B	UNITS
MAXIMUM FORWARD VOLTAGE AT 3A	V_F	0.55			0.7		0.85			V
MAXIMUM DC REVERSE CURRENT	25°C	0.5								mA
	100°C	20								
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	C_J	500								pF

NOTES : 1. MEASURED AT 1 MHz AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS

2. P.C.B. MOUNTED 0.55"×0.55"(14 ×14mm)0.013mm THICK COPPER PAD AREAS

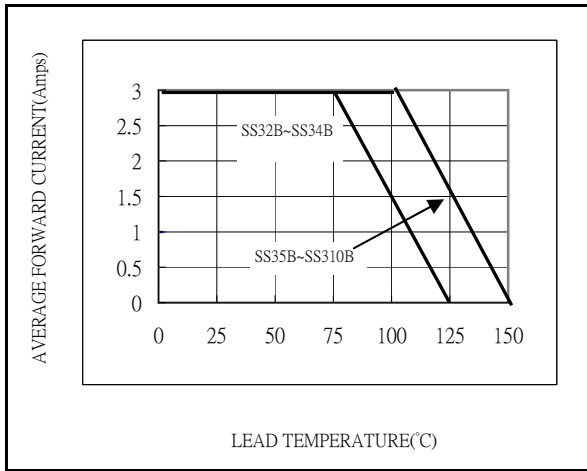


Fig.1-FORWARD CURRENT DERATING CURVE

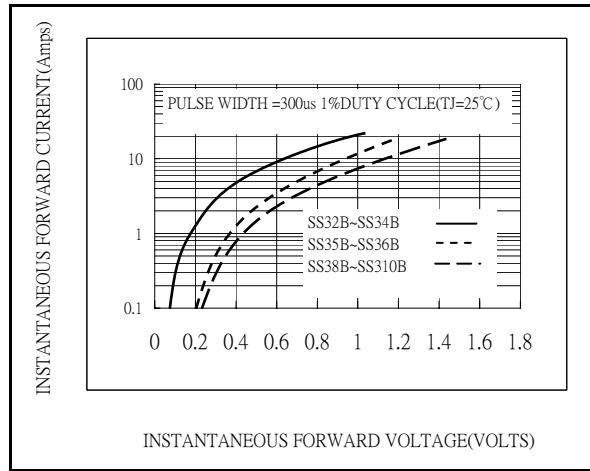


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

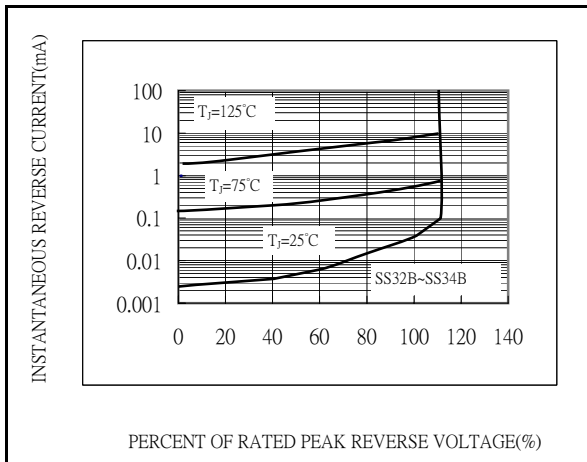


Fig.3A-TYPICAL REVERSE CHARACTERISTICS

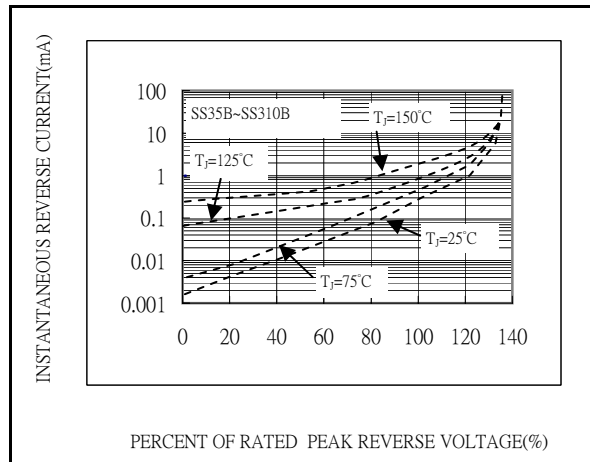


Fig.3B-TYPICAL REVERSE CHARACTERISTICS