

DATA SHEET

SS62 SERIES

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

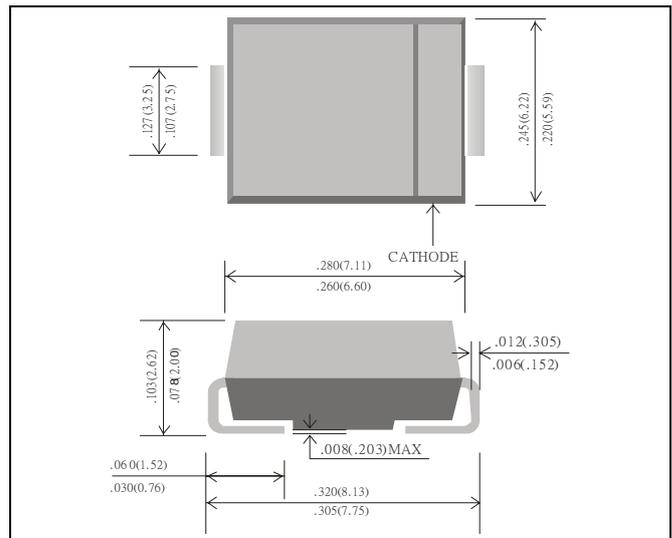
VOLTAGE 20~100 Volts **CURRENT** 6.0 Ampere

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 VF
- 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 : 0.21GRAMS



CASE : DO-214AC(SMC)

DIMENSIONS IN INCHES AND (MILLIMETERS)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	SS62	SS63	SS64	SS65	SS66	UNITS	
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	20	30	40	50	60	V	
MAXIMUM RMS VOLTAGE	V_{RMS}	14	21	28	35	42	V	
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	20	30	40	50	60	V	
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT (.375" (9.5mm) LEAD LENGTH (SEE FIG.1)	I_O	6.0						A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	150						A
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta JL}$	17						°C/W
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta JA}$	55						°C/W
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 150						°C
OPERATING TEMPERATURE RANGE	T_J	- 55 TO + 125						°C

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

PARAMETER	SYMBOL	SS62	SS63	SS64	SS65	SS66	UNITS
MAXIMUM FORWARD VOLTAGE AT 5A	V_F	0.55			0.7		V
MAXIMUM DC REVERSE CURRENT AT $T_A = 25^\circ\text{C}$	I_R	1.0					mA
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	C_J	300					pF

NOTES : 1. MEASURED AT 1.0 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 V

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

3. SMA PACKAGE SUFFIX "A", SMB PACKAGE SUFFIX "B", SMC NO SUFFIX

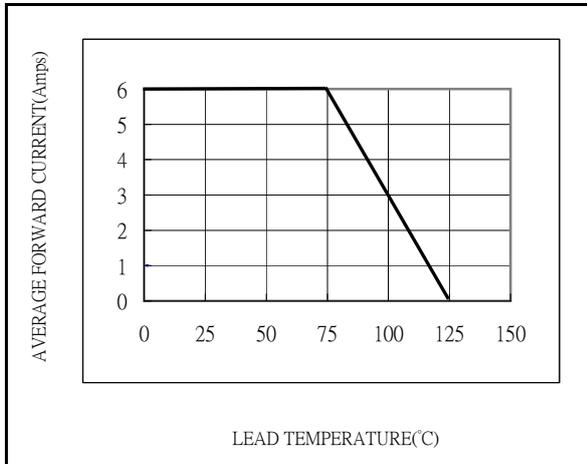


Fig.1-FORWARD CURRENT DERATING CURVE

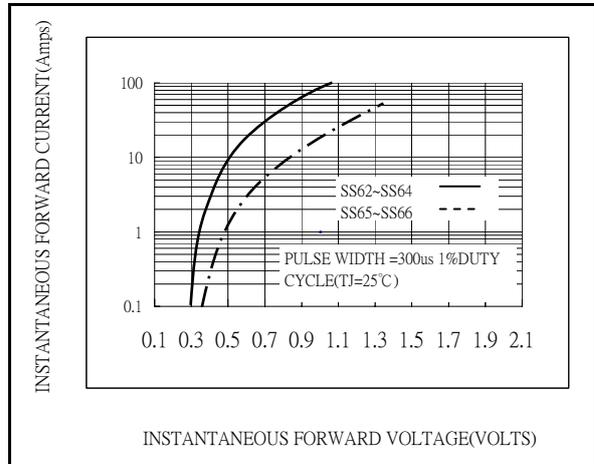


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

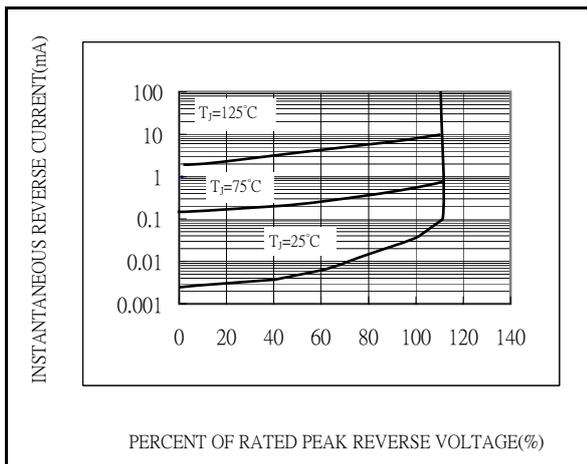


Fig.3A-TYPICAL REVERSE CHARACTERISTICS

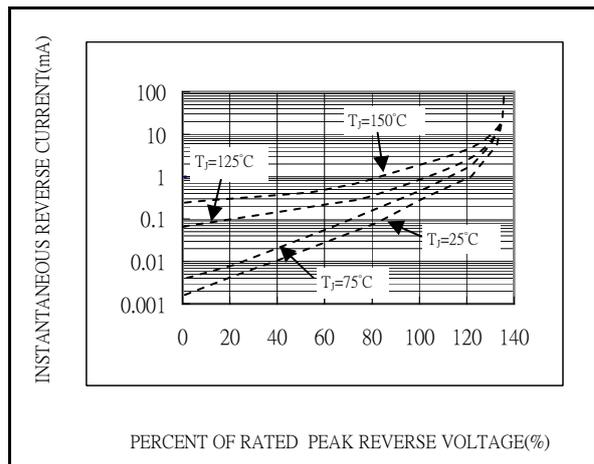


Fig.3B-TYPICAL REVERSE CHARACTERISTICS

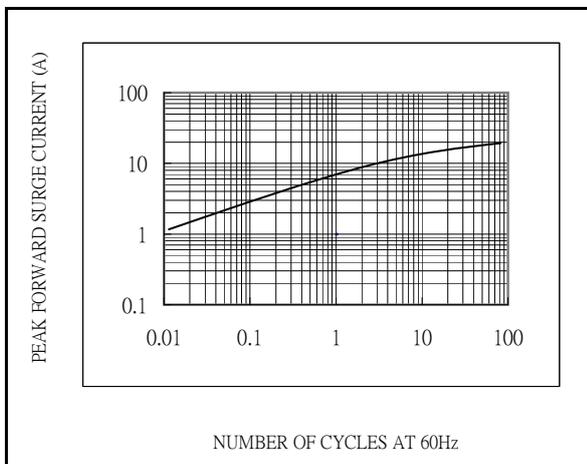


Fig.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

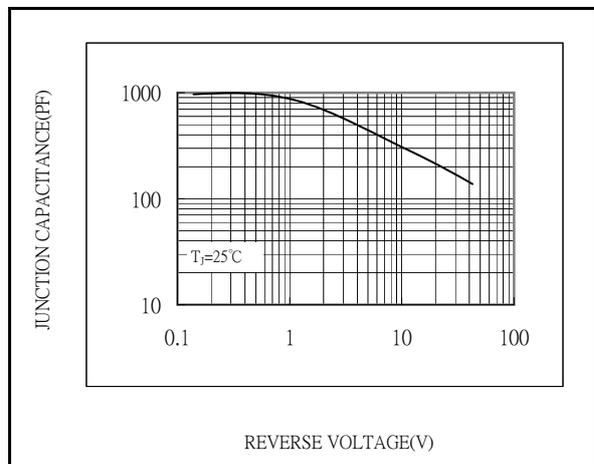


Fig.5-TYPICAL JUNCTION CAPACITANCE