

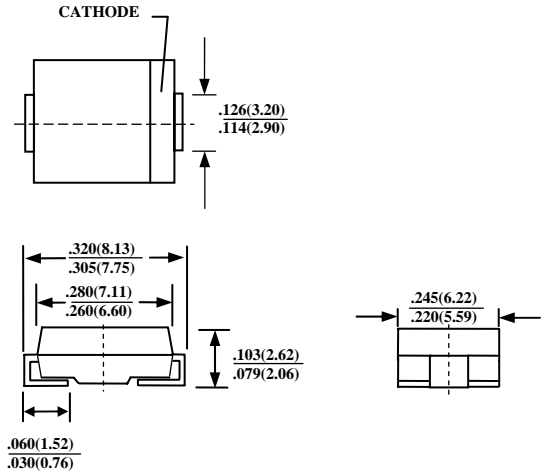
**3A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS**

**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 : 250°C/10 SECONDS  
AT TERMINALS

**MECHANICAL DATA**

- CASE : MOLDED PLASTIC
- TERMINALS : SOLDER PLATED
- POLARITY : INDICATED BY CATHODE BAND
- WEIGHT : 0.21 GRAMS



CASE : DO-214AB (SMC)  
DIMENSIONS IN INCHES AND (MILLIMETERS)

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**  
RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED  
SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD.  
FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

RATINGS	SYMBOL	SS32	SS33	SS34	SS35	SS36	SS38	SS310	UNITS	
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	$V_{RRM}$	20	30	40	50	60	80	100	V	
MAXIMUM RMS VOLTAGE	$V_{RMS}$	14	21	28	35	42	56	70	V	
MAXIMUM DC BLOCKING VOLTAGE	$V_{DC}$	20	30	40	50	60	80	100	V	
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT SEE FIG.1	$I_o$	3.0								A
MAXIMUM OVERLOAD SURGE 8.3ms SINGLE HALF SINE-WAVE	$I_{FSM}$	100								A
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	$C_j$	300								PF
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	$T_{OP}$	-55 TO + 125								°C

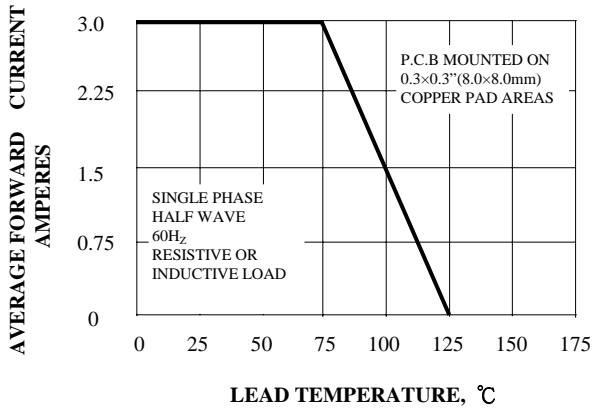
**ELECTRICAL CHARACTERISTICS (A<sub>T</sub> T<sub>A</sub> =25°C UNLESS OTHERWISE NOTED)**

CHARACTERISTICS	SYMBOL	SS32	SS33	SS34	SS35	SS36	SS38	SS310	UNITS	
MAXIMUM FORWARD VOLTAGE AT 3.0A AND 25°C	$V_F$	0.50			0.75		0.85		V	
MAXIMUM REVERSE CURRENT AT 25°C	$I_R$	0.5								mA

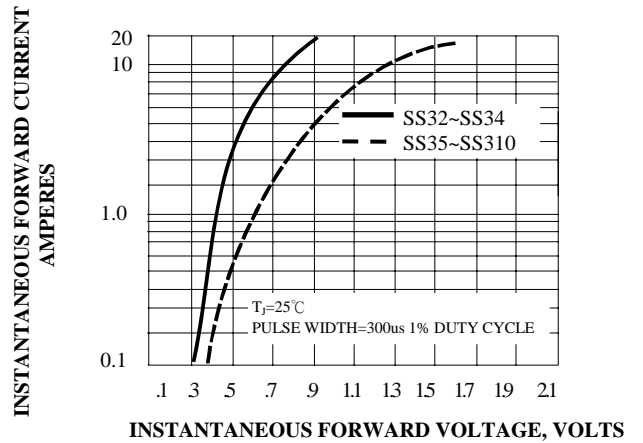
- NOTE :
1. MEASURED AT 1.0 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 V
  2. P.C.B. MOUNTED 0.55"×0.55 "(14×14 mm ) 0.013mm THICK COPPER PAD AREAS
  3. SMA PACKAGE SUFFIX " A" , SMB PACKAGE SUFFIX "B" , SMC NO SUFFIX

# RATINGS AND CHARACTERISTIC CURVE SS32 THRU SS310

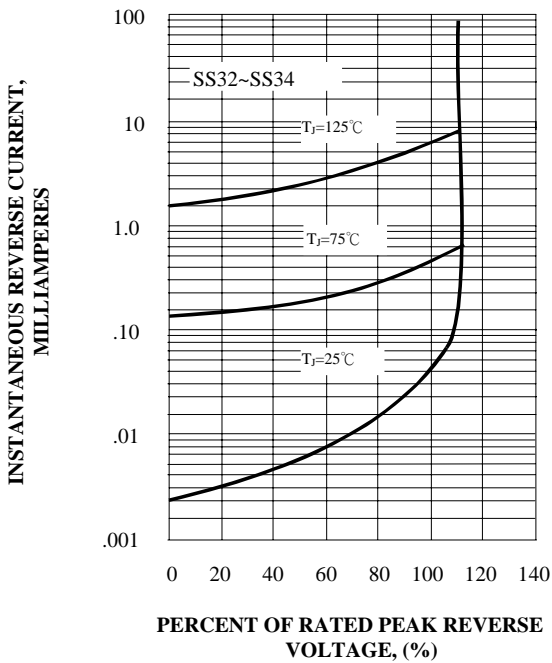
**FIG. 1 - FORWARD CURRENT DERATING CURVE**



**FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS**



**FIG. 3A - TYPICAL REVERSE CHARACTERISTICS**



**FIG. 3B - TYPICAL REVERSE CHARACTERISTICS**

