

# DATA SHEET

## SS32A SERIES

### SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

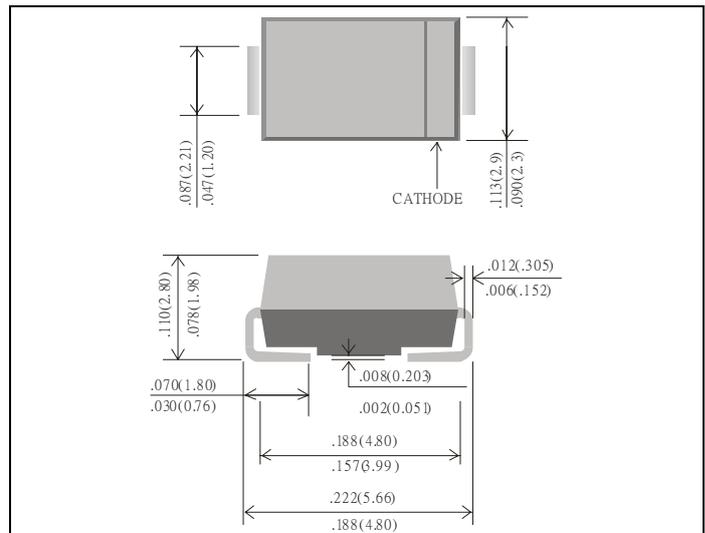
**VOLTAGE** 20~100 Volts **CURRENT** 3.0 Ampere

#### 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 : 0.064GRAMS



CASE : DO-214AC(SMA)

DIMENSIONS IN INCHES AND (MILLIMETERS)

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS39A	SS310A	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 +150								°C
TYPICAL THERMAL RESISTANCE (NOTE 1)	$R_{\theta JA}$	55								°C/W
TYPICAL THERMAL RESISTANCE (NOTE 1)	$R_{\theta JL}$	17								°C/W

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

PARAMETER	SYMBOL	SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS39A	SS310A	UNITS
MAXIMUM FORWARD VOLTAGE AT 3A (NOTE 2)	$V_F$	0.5			0.75		0.85			V
MAXIMUM DC REVERSE CURRENT	25°C	0.5								mA
	100°C	20								

NOTES : 1. P.C.B. MOUNTED 5.0mm<sup>2</sup> ((14×14 mm) 0.13mm THICK COPPER PAD AREAS

2. PULSE TEST WITH PW= 300us, 2% DUTY CYCLE

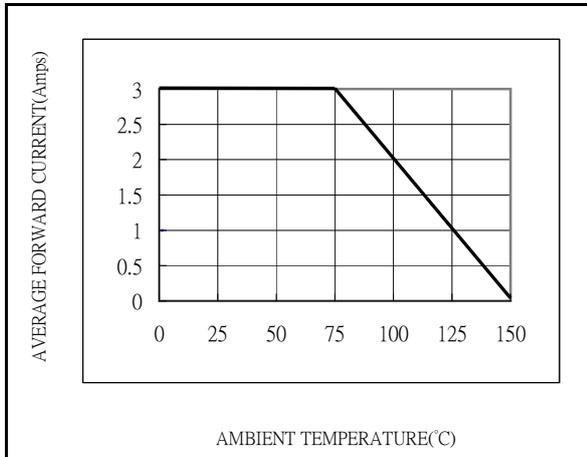


Fig.1-FORWARD CURRENT DERATING CURVE

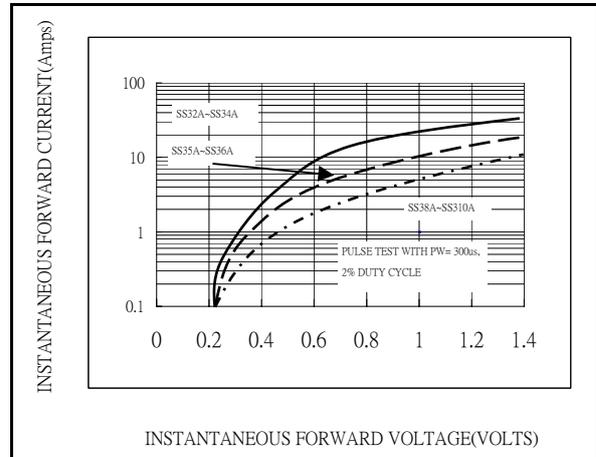


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

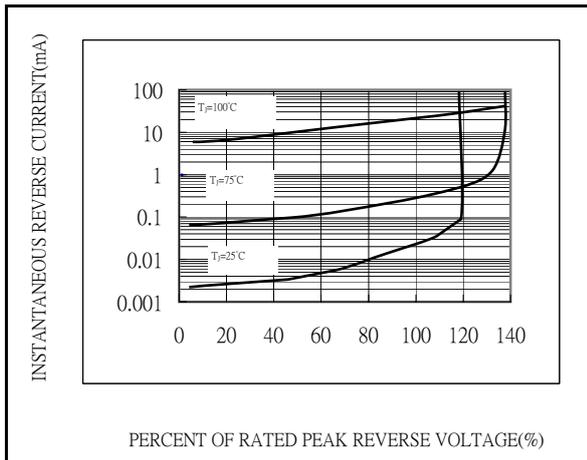


Fig.3A-TYPICAL REVERSE CHARACTERISTICS

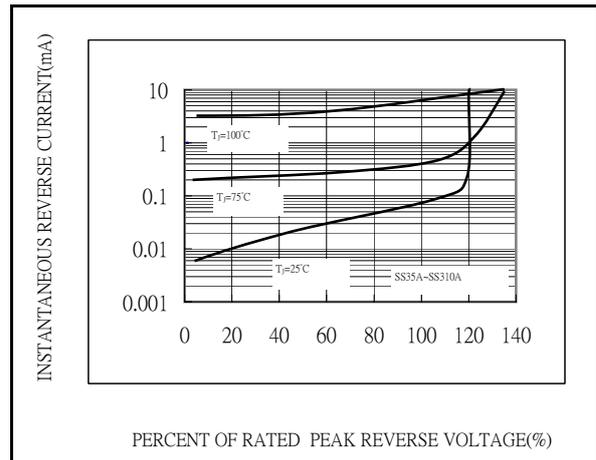


Fig.3B-TYPICAL REVERSE CHARACTERISTICS

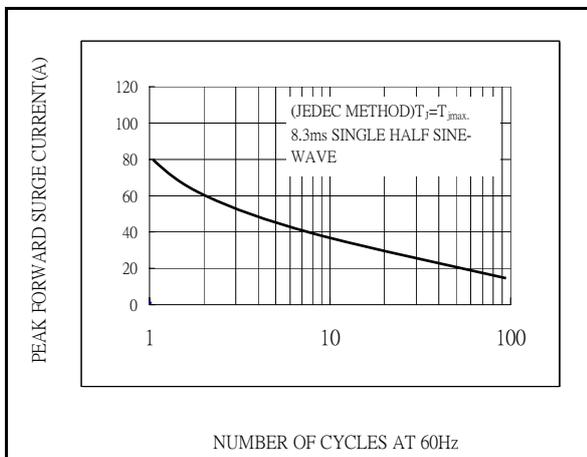


Fig.5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT