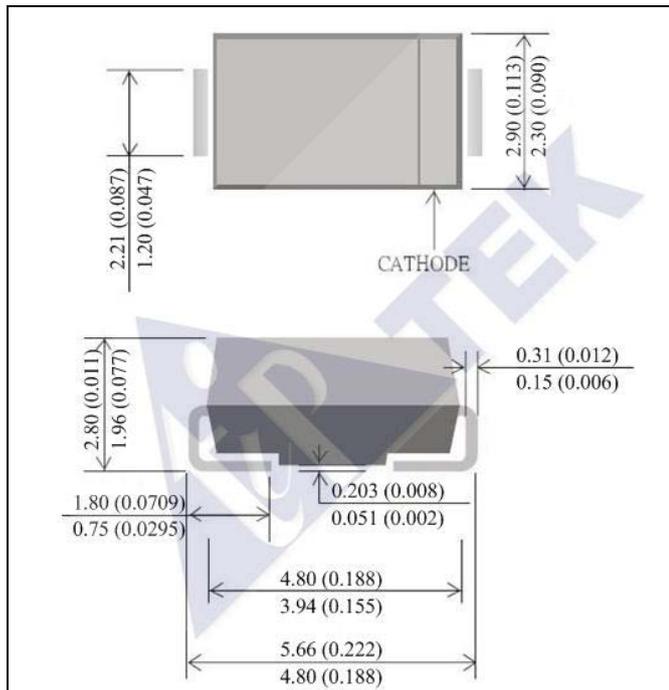


3A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS



CASE : DO-214AC(SMA)

DIMENSIONS IN MILLIMETERS AND (INCHES)

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 : 0.066 GRAMS
- Pb Free: SS32A~SS310A
Halogen Free: SS32A-H~SS310A-H

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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
TYPICAL THERMAL RESISTANCE (NOTE 1)	$R_{\theta JL}$	17								°C/W
TYPICAL THERMAL RESISTANCE (NOTE 1)	$R_{\theta JA}$	55								°C/W
STORAGE TEMPERATURE RANGE	T_{STG}	- 65 TO + 150								°C
OPERATING TEMPERATURE RANGE	T_J	- 65 TO + 150								°C

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

PARAMETER	SYMBOL	SS32A	SS33A	SS34A	SS35A	SS36A	SS38A	SS39A	SS310A	UNITS
MAXIMUM FORWARD VOLTAGE AT 3A (NOTE 2)	V_F	0.55			0.75		0.85			V
MAXIMUM DC REVERSE CURRENT	25°C	0.5								mA
	100°C									

- NOTES : 1. P.C.B. MOUNTED 5.0mm² (14×14 mm) 0.13mm THICK COPPER PAD AREAS
2. PULSE TEST WITH PW= 300us, 2% DUTY CYCLE

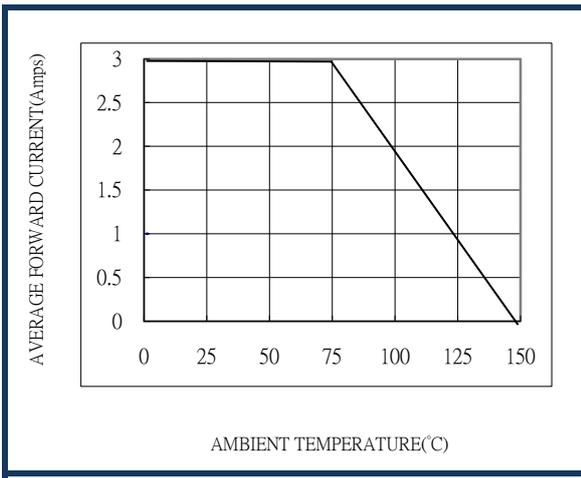


Fig.1-FORWARD CURRENT DERATING CURVE

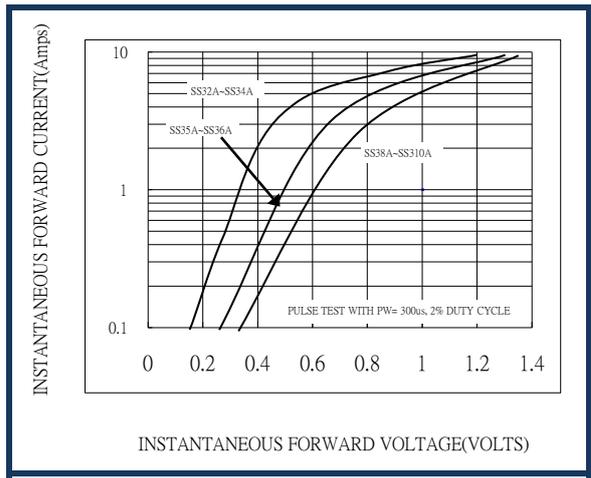


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

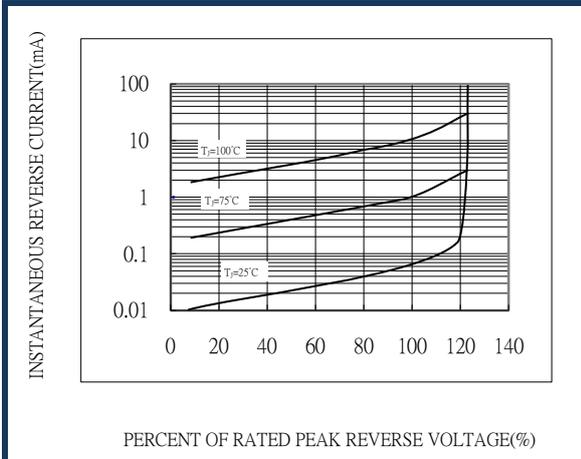


Fig.3-TYPICAL REVERSE CHARACTERISTICS

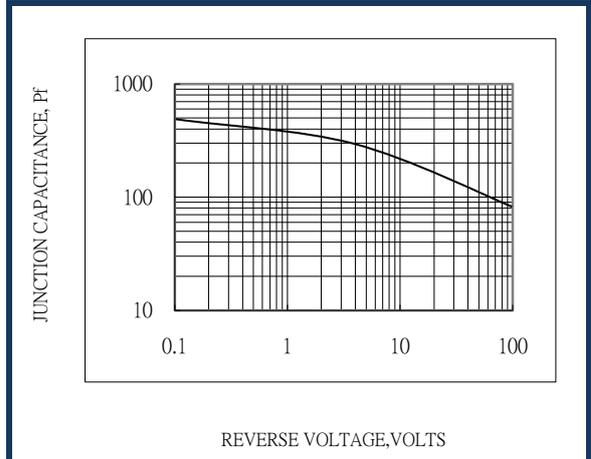


Fig.4-TYPICAL JUNCTION CAPACITANCE

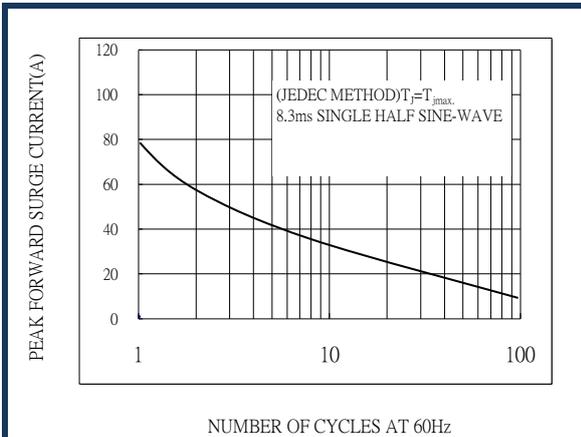


Fig.5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT