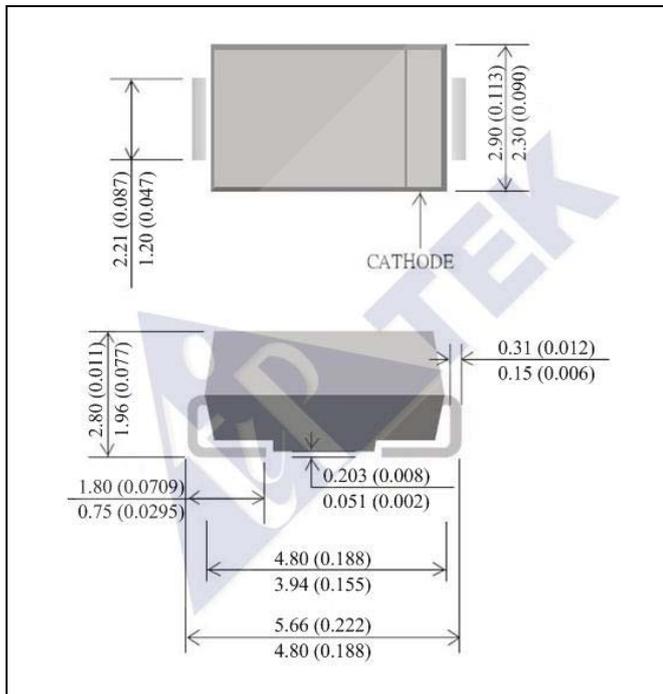# 2A SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

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：260℃/10 SECONDS AT TERMINALS

MECHANICAL DATA

- CASE：MOLDED PLASTIC
- TERMINALS：SOLDER PLATED
- POLARITY：INDICATED BY CATHODE BAND
- WEIGHT：0.066 GRAMS
- Pb Free: SS22A~SS210A
  Halogen Free: SS22A-H~SS210A-H

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED.

PARAMETER	SYMBOL	SS22A	SS23A	SS24A	SS25A	SS26A	SS28A	SS29A	SS210A	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	2.0								A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	50								A
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta JL}$	15								℃/W
STORAGE TEMPERATURE RANGE	T_{STG}	- 65 TO + 150								℃
OPERATING TEMPERATURE RANGE	T_J	- 65 TO + 125				- 65 TO + 150				℃

ELECTRICAL CHARACTERISTICS (AT T_A =25°C UNLESS OTHERWISE NOTED)

PARAMETER		SYMBOL	SS22A	SS23A	SS24A	SS25A	SS26A	SS28A	SS29A	SS210A	UNITS
MAXIMUM FORWARD VOLTAGE AT 2A (NOTE 1)		V_F	0.55			0.75		0.85			V
MAXIMUM DC REVERSE CURRENT (NOTE 1)	25℃	I_R	0.5								mA
	100℃		20.0				10				

NOTES： 1. PULSE TEST : 300μS PULSE WIDTH , 1% DUTY CYCLE

2. P.C.B. MOUNTED 0.2"×0.2 "(5×5 mm) 0.013mm THICK COPPER PAD AREAS
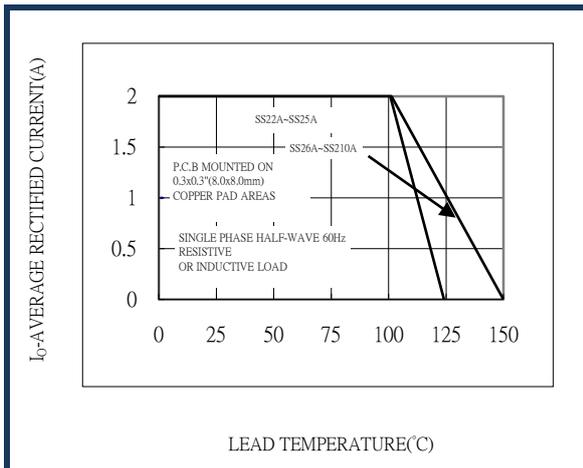
TIPTEK TECHNOLOGY INC.

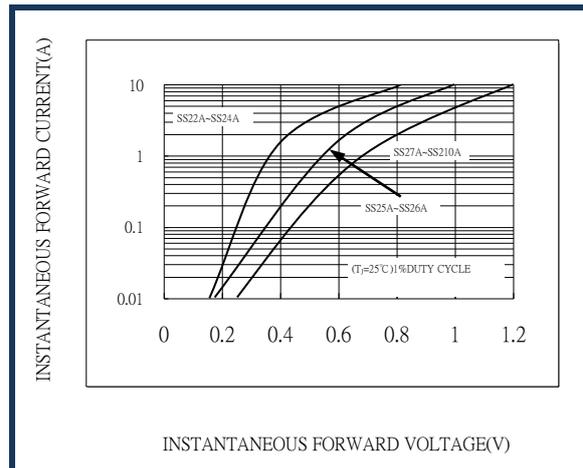Fig.1-FORWARD CURRENT DERATING CURVE

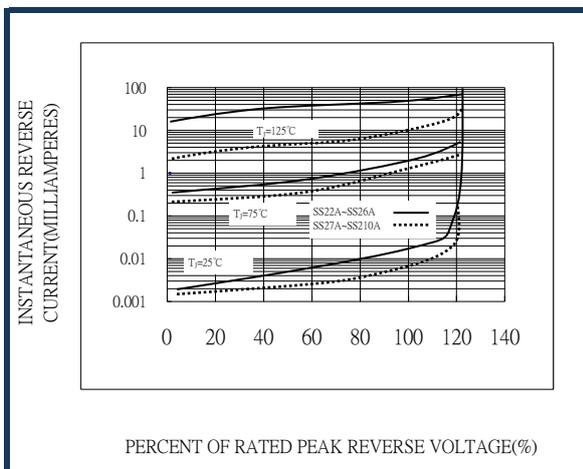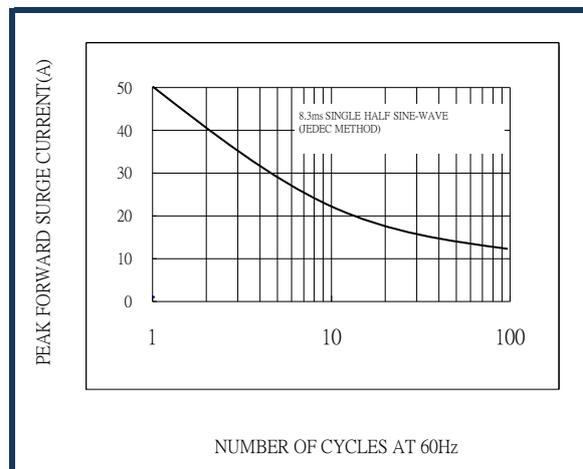Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

Fig.3-TYPICAL REVERSE CHARACTERISTICS

Fig.4-MAXIMUM NON-REPETITIVE SURGE CURRENT