



CHENMKO ENTERPRISE CO.,LTD

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR
VOLTAGE 18 VOLTS
400 WATTS PEAK POWER 1.0 WATT STEADY STATE

P4SSMJ185 AGP-A

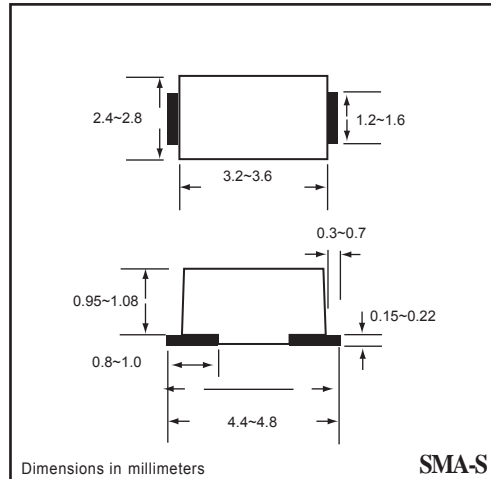
Halogens free devices

FEATURES

- * Plastic package
- * 400W surge capability at 1ms
- * Glass passivated chip junction in SMA-S Package
- * Excellent clamping capability
- * Low Zener Impedance
- * Fast response time: typically less than 1.0ps from 0 volts to BV min.
- * Typical IR less than 1 uA above 10V
- * High temperature soldering guaranteed : 260°C/10 seconds at terminals

MECHANICAL DATA

Case: JEDEC SMA-S molded plastic
Polarity: Color band denotes cathode end



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%.

MAXIMUM RATINGS (At TA = 25°C unless otherwise noted)

RATINGS	SYMBOL	VALUE	UNITS
Peak Power Dissipation at TA = 25°C, Tp = 1ms (Note1)	PPK	Minimum 400	Watts
Steady State Power Dissipation at TL = 75°C	Pd	1.0	Watts
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (Note 2)	IFSM	40	Amps
Operating and Storage Temperature Range	TJ, TSTG	-65 to +175	°C

- NOTES : 1. Non-repetitive current pulse, per Fig. 3 and derated above T A = 25°C per Fig. 2.
 2. 8.3ms single half sine-wave, duty cycle = 4 pulses per minute maximum.
 3. PC Board Mounted on 0.2 X 0.2" (5 X 5mm) copper pad area

2015-08

ELECTRICAL CHARACTERISTICS (P4SSMJ18A5 GP-A)

"TYPE	Zener Voltage VZ (V) @ IZT			"Test "current "IZT(mA)	Working "Peak Reverse Voltage Vrwm(V)	"Maximum "Reverse "Leakage "Current IR(uA)	"Maximum "Reverse "Current Irm(A)	"Maximum "reverse "Voltage "@IRSM Vrsm(V)
	"Min "Volts	Nom Volts	Max Volts					
	P4SSMJ18CAGP-A	17.1	18	18.9	1	15.3	5	17

RATING CHARACTERISTIC CURVES (P4SSMJ18A5 GP-A)

FIG. 1 - PEAK PULSE POWER RATING CURVE

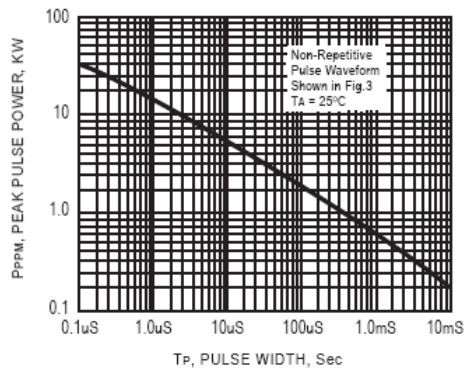


FIG. 2 - PULSE DERATING CURVE

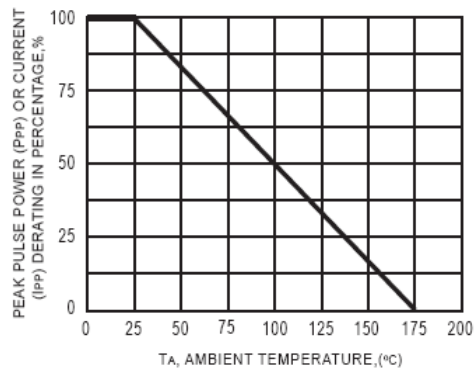


FIG. 3 - PULSE WAVEFORM

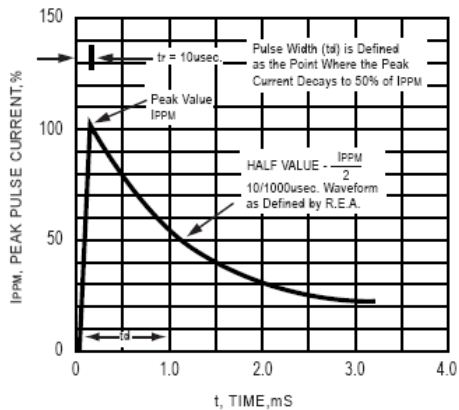
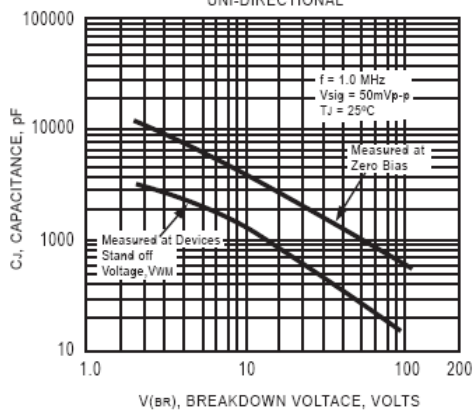


FIG. 4 - TYPICAL JUNCTION CAPACITANCE UNI-DIRECTIONAL



RATING CHARACTERISTIC CURVES (P4SSMJ185 AGP-A)

FIG. 5 - STEADY STATE POWER DERATING CURVE

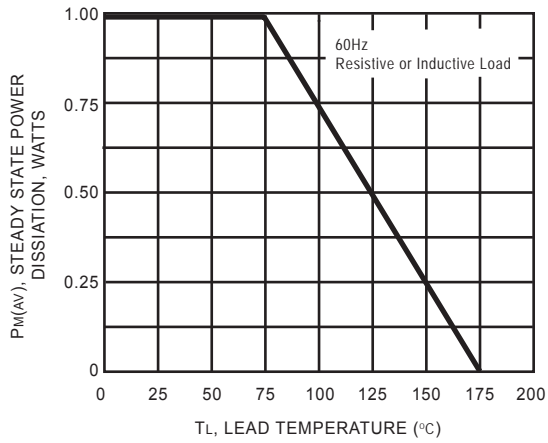


FIG. 6 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT UNIDIRECTIONAL

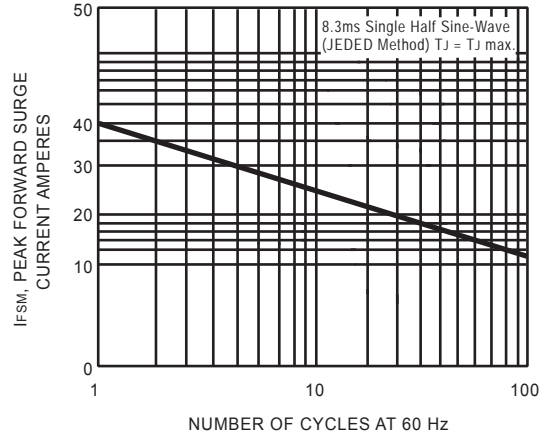
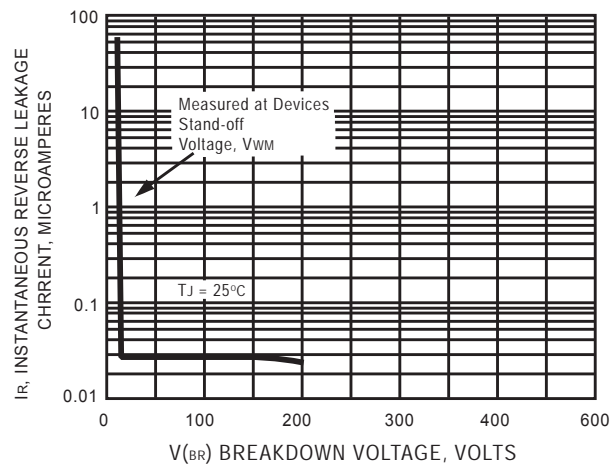


FIG. 7 - TYPICAL REVERSE LEAKAGE CHARACTERISTICS

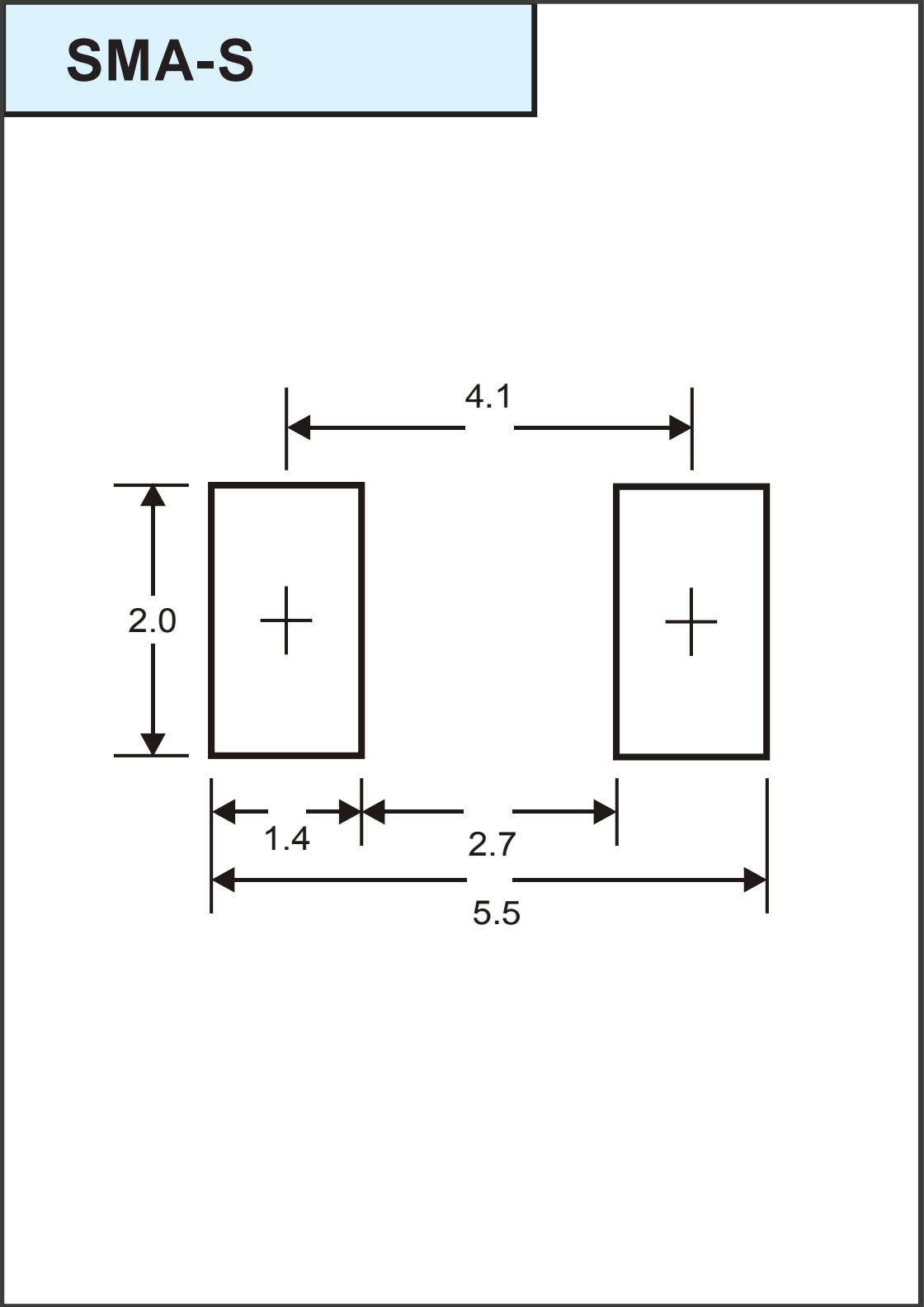




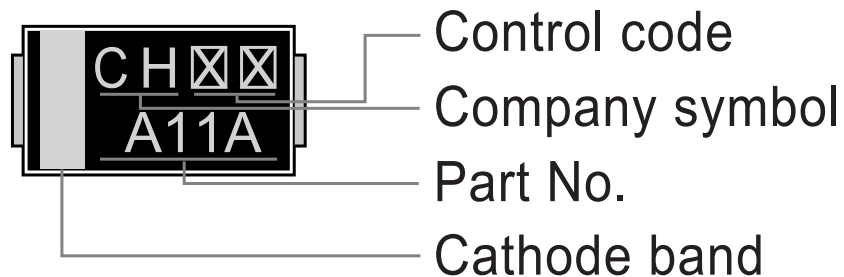
CHENMKO ENTERPRISE CO.,LTD

SURFACE MOUNT
RECOMMENDED FOOT PRINT
all dimensions in mm

SMA-S



The Marking and Part No. for P4SSMJ18AAGP-A (SMA-S)



Control code:

* First Digital(X1): Year code
 Example : 2015-----5
 2014-----4

* Second letter(X2): Month code
 Example : Jan-----a
 Feb-----b

PART No.:

A 1 1 A
 └─── Marking Code

CUSTOMER :	APPROVED : JASON	CHENMKO LTD.
APPROVED :	CHECKED : ANGEL	
CHECKED :	DRAWN : DANY	DRAWING No. :