



CHENMKO ENTERPRISE CO.,LTD

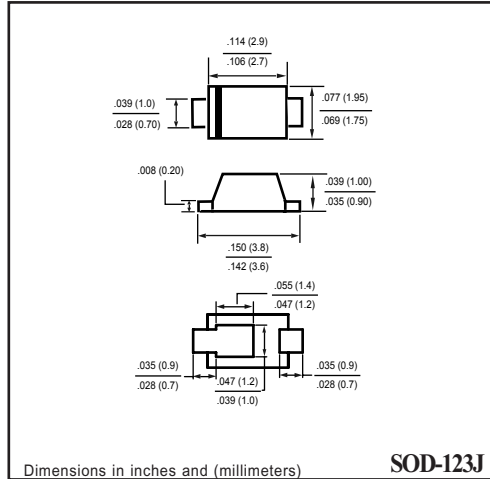
GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR
VOLTAGE- \bar{I} VOLTS
225 WATTS PEAK POWER 1.0 WATT STEADY STATE

STVJ+[®]AGP-A

Halogens free devices

FEATURES

- * Plastic package
- * 225W surge capability at 1ms
- * Glass passivated chip junction in SOD-123J 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



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%.

DEVICES FOR BIDIRECTIONAL APPLICATIONS

For Bidirectional use C or CA Suffix for types STVJ5.0AGP-A thru types STVJ51AGP-A
 Electrical characteristics apply in both directions.

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 225	Watts
Steady State Power Dissipation at TL = 25°C	Pd	1.0	Watts
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (Note 2)	IFSM	50	Amps
Operating and Storage Temperature Range	TJ, TSTG	-65 to +175	°C

- NOTES : 1. Non-repetitive current pulse, per Fig. 3 and derated above TA = 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

ELECTRICAL CHARACTERISTICS (STVJ7.0AGP-A)

TYPE	Zener Voltage VZ (V) @ IZT			Test current	Working Peak Reverse Voltage	Maximum Reverse Leakage Current	Maximum Reverse Current	Maximum reverse Voltage @IRSM
	Min	Nom	Max	IZT(mA)				
	Volts	Volts	Volts		IZT(mA)	Vrwm(V)	IR(uA)	Irsm(A)
STVJ7.0AGP-A	7.78		8.6	10	7	100	12	18.8

RATING CHARACTERISTIC CURVES (STVJ7.0AGP-A)

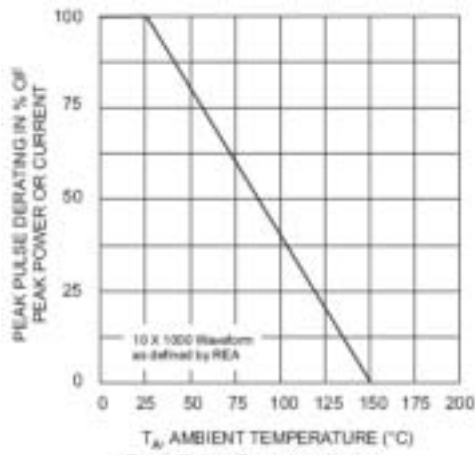


Fig1. Pulse Derating Curve

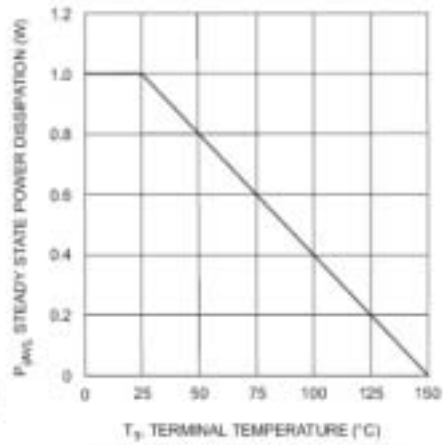


Fig2. Steady State Power Derating

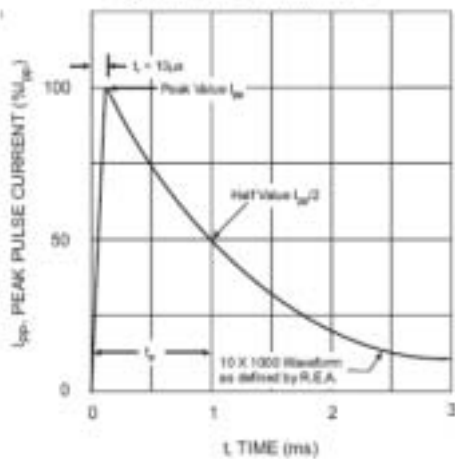


Fig3. Pulse Waveform

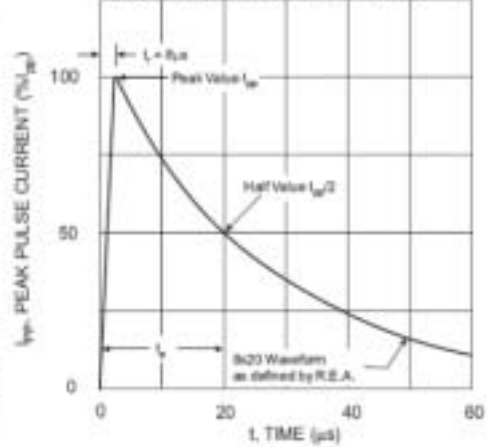


Fig4. Pulse Waveform

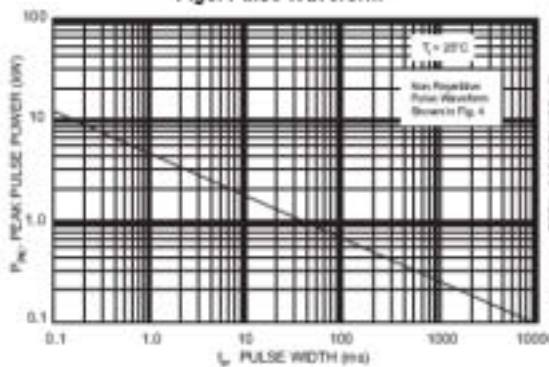


Fig5. Pulse Rating Curve

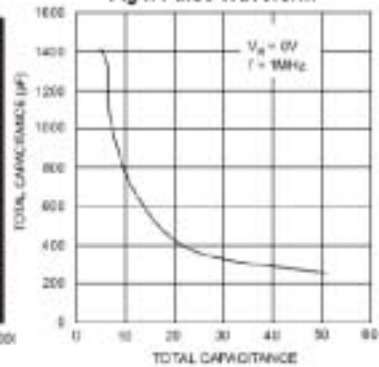


Fig6. V_{CDMR} (V)