



CHENMKO ENTERPRISE CO.,LTD

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR
VOLTAGE- 15 VOLTS
600 WATTS PEAK POWER 5.0 WATTS STEADY STATE

TVSBMJ15AGP-A

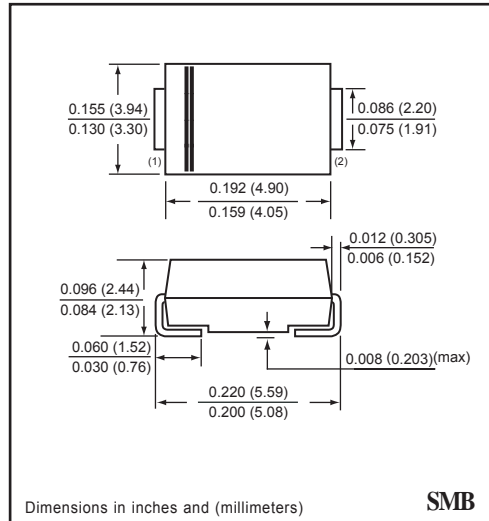
Halogens free devices

FEATURES

- * Plastic package
- * 600W surge capability at 1ms
- * Glass passivated chip junction in SMB 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 SMB molded plastic
Terminals: Plated axial leads, solderable per MIL-STD-750, Method 2026
Polarity: Color band denotes cathode end
Mounting Position: Any
Weight: 0.003 ounce 0.093 gram



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 TVSBMJ6.8A thru types TVSBMJ200A
 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 600 | Watts |
| Steady State Power Dissipation at TL = 75°C | PD | 5.0 | Watts |
| Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (Note 2) | IFSM | 100 | 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 (TVSBMJ15AGP-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 | | | | | |
| | Volts | Volts | Volts | IZT(mA) | Vrwm(V) | IR(uA) | Irsm(A) | Vrsm(V) |
| TVSBMJ15AGP-A | 14.3 | 15 | 15.8 | 1 | 12.8 | 5.0 | 28 | 21.2 |

RATING CHARACTERISTIC CURVES (TVSBMJ15AGP-A)

FIG. 1 - PEAK PULSE POWER RATING CURVE

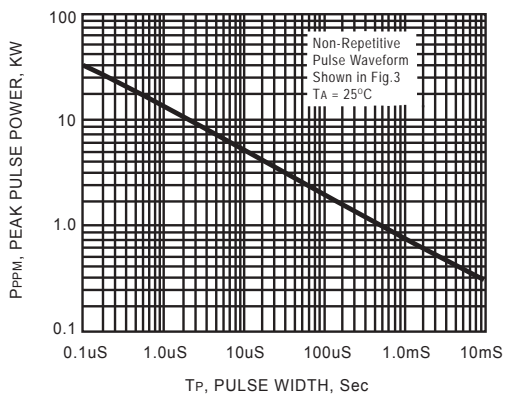


FIG. 2 - PULSE DERATING CURVE

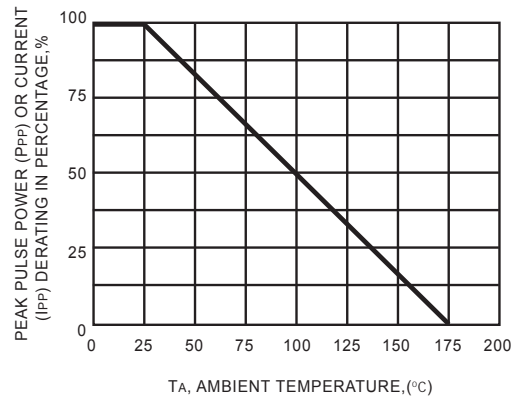


FIG. 3 - PULSE WAVEFORM

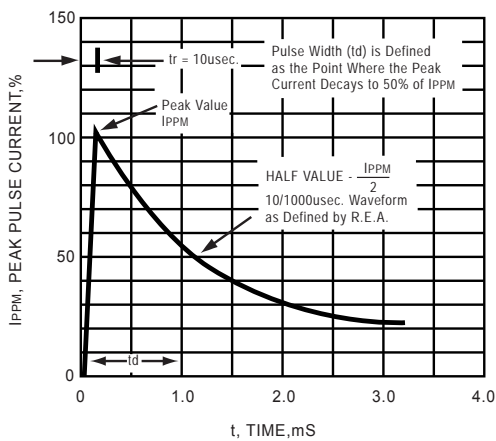


FIG. 4 - TYPICAL JUNCTION CAPACITANCE UNI-DIRECTIONAL

