



CHENMKO ENTERPRISE CO.,LTD

GLASS PASSIVATED JUNCTION TRANSIENT VOLTAGE SUPPRESSOR
VOLTAGE- 6.0 VOLTS
600 WATTS PEAK POWER 5.0 WATTS STEADY STATE

P6SBMJ6.0AGP-A

Halogens free devices

FEATURES

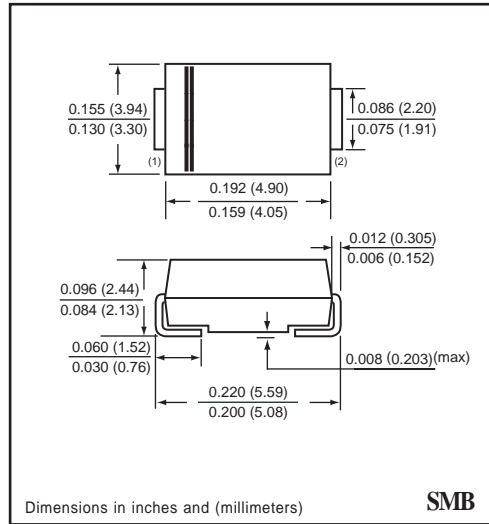
- * Plastic package
- * 600W surge capability at 1ms
- * Glass passivated chip junction in SMB Package
- * Excellent clamping capability
- * Low Zener Impedance
- * Fast response time: typically less than 1.0ps from 0 volts to BV min.
- * Typical IR less than 1 uA above 10V
- * High temperature soldering 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



SMB



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 P6SBMJ6.8A thru types P6SBMJ200A
 Electrical characteristics apply in both directions.

MAXIMUM RATINGS (At $T_A = 25^\circ\text{C}$ unless otherwise noted)

RATINGS	SYMBOL	VALUE	UNITS
Peak Power Dissipation at $T_A = 25^\circ\text{C}$, $T_p = 1\text{ms}$ (Note 1)	PPK	Minimum 600	Watts
Steady State Power Dissipation at $T_L = 75^\circ\text{C}$	P _D	5.0	Watts
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (Note 2)	I _{FSM}	100	Amps
Operating and Storage Temperature Range	T _J , T _{STG}	-65 to +175	°C

NOTES : 1. Non-repetitive current pulse, per Fig. 3 and derated above $T_A = 25^\circ\text{C}$ 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

GEF2E7

ELECTRICAL CHARACTERISTICS (D* G6 A>6.05 ; D!5)

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)
P8SDMJ6.0AGP/C	6.65	7.4	8.15	10	6.0	800	52.6	11.4

RATING CHARACTERISTIC CURVES (D* G6 A>6.05 ; D!5)

FIG. 1 - PEAK PULSE POWER RATING CURVE

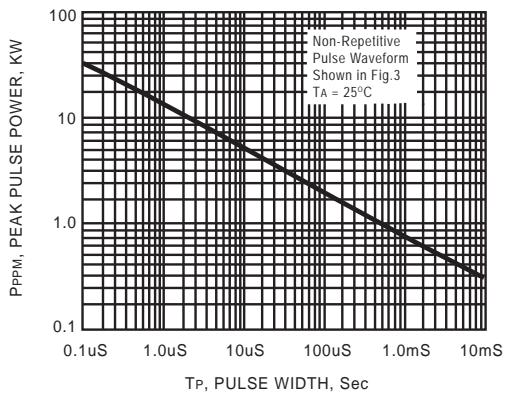


FIG. 2 - PULSE DERATING CURVE

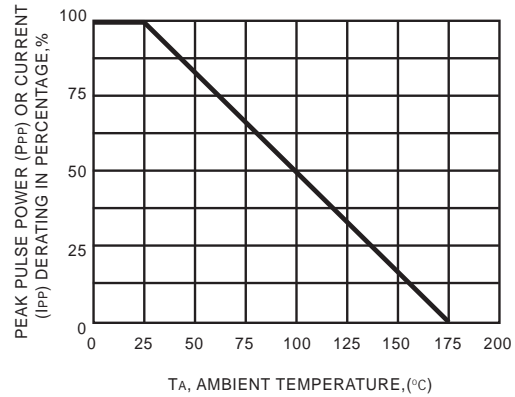


FIG. 3 - PULSE WAVEFORM

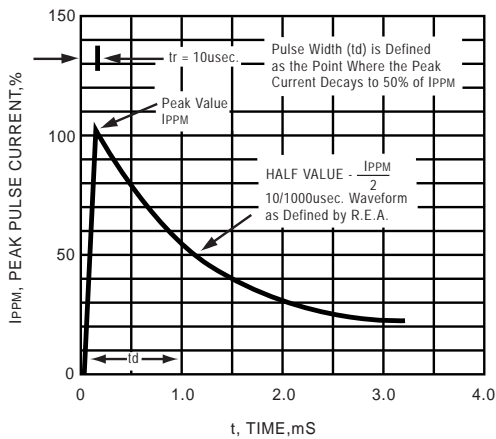


FIG. 4 - TYPICAL JUNCTION CAPACITANCE UNI-DIRECTIONAL

