

SURFACE MOUNT
GPP TRANSIENT VOLTAGE SUPPRESSOR
600 WATT PEAK POWER 1.0 WATT STEADY STATE

FEATURES

- * Plastic package has underwriters laboratory
- * Glass passivated chip construction
- * 600 watt surge capability at 1ms
- * Excellent clamping capability
- * Low zener impedance
- * Fast response time

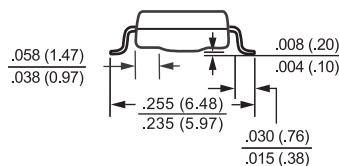
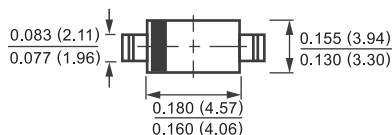
Ratings at 25 °C ambient temperature unless otherwise specified.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.



DO-214AA
GULL WING



Dimensions in inches and (millimeters)

DEVICES FOR BIPOLAR APPLICATIONS

TFMBG150A

Electrical characteristics

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

RATINGS	SYMBOL	VALUE	UNITS
Peak Power Dissipation with a 10/1000uS (Note 1,2, Fig.1)	PPPM	Minimum 600	Watts
Peak Pulse Current with a 10/1000uS waveform (Note 1, Fig.3)	IPPM	SEE TABLE 1	Amps
Peak Forward Surge Current 8.3mS single half sine-wave superimposed on rated load (JEDEC method) (Note 2,3) unidirectional only	IFSM	100	Amps
Maximum Instantaneous Forward Voltage at 50A for unidirectional only	V _F	5.0	Volts
Operating and Storage Temperature Range	T _J , T _{STG}	-55 to + 150	°C

NOTES : 1. Non-repetitive current pulse, per Fig.3 and derated above $T_A = 25^\circ\text{C}$ per Fig.2.

2. Mounted on 0.2 X 0.2" (5.0 X 5.0mm) copper pad to each terminal.

3. Measured on 8.3mS single half sine-wave duty cycle = 4 pules per minute maximum.

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RATING AND CHARACTERISTIC CURVES (TFMBG150A)

FIG. 1 - PEAK PULSE POWER RATING CURVE

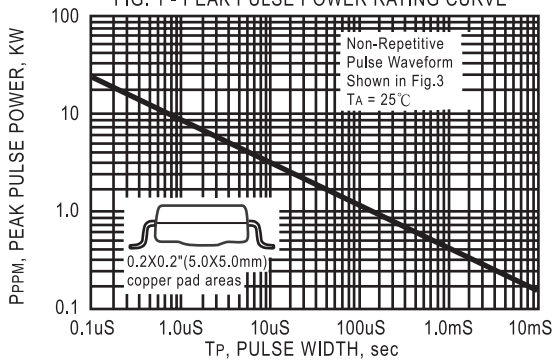


FIG. 2 - PULSE DERATING CURVE

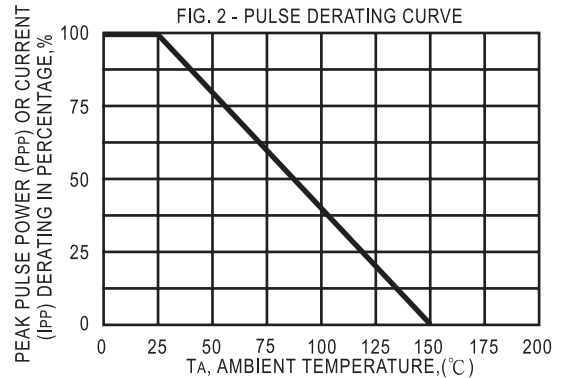


FIG. 3 - PULSE WAVEFORM

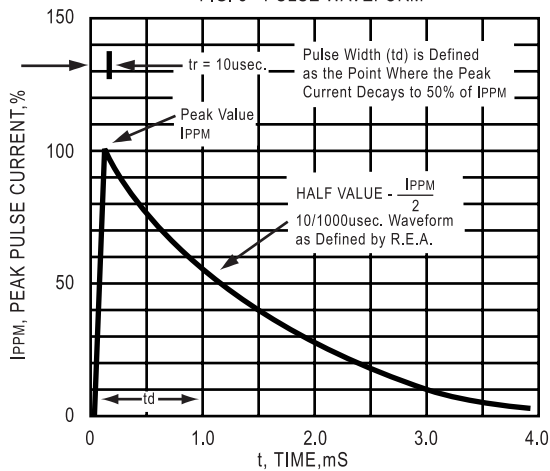


FIG. 4 - TYPICAL JUNCTION CAPACITANCE

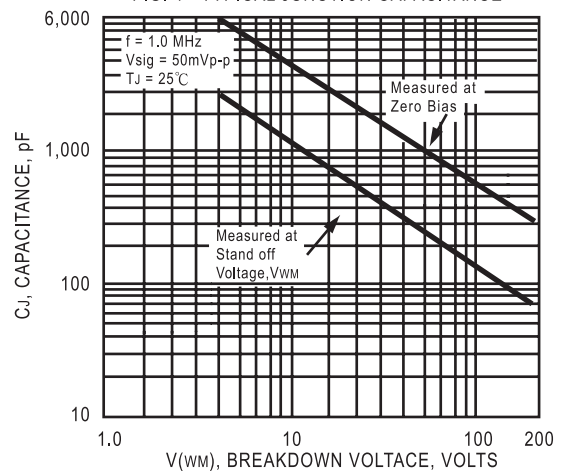


FIG. 5 - TYPICAL JUNCTION CAPACITANCE BIDIRECTIONAL

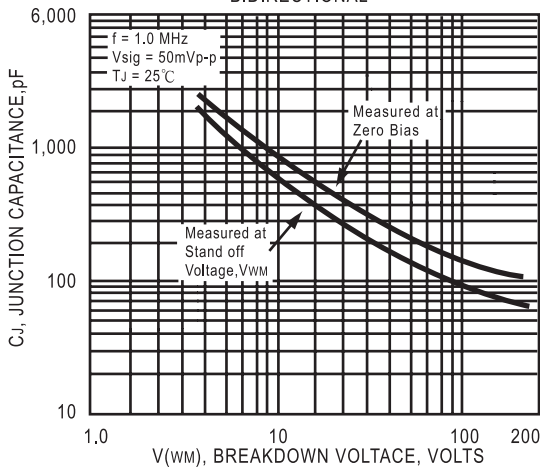
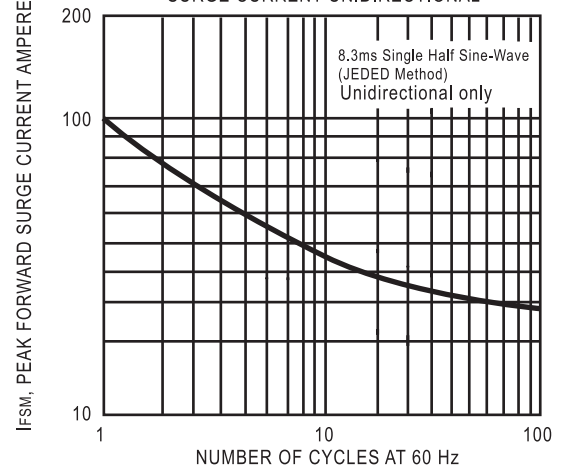


FIG. 6 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT UNIDIRECTIONAL



TRANSIENT VOLTAGE SUPPRESSORS

600W SERIES TVS DIODES / DO-214AA (CASE 3) 600W

[illegible]