



ZGC6MM

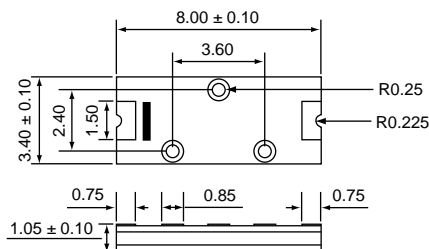
HIGH VOLTAGE SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 6000 Volts

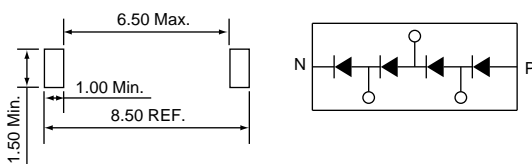
Forward Current - 1.0 Ampere

PATENTED

8034



Mounting PAD



*Dimensions in millimeters

SuperChipTM
SUPEREX IITM



FEATURES

- * Halogen-free type
- * Compliance to RoHS product
- * Internal structure with GPRC (glass passivated rectifier chip) inside
- * Leadless chip form, no lead damage
- * Lead-free solder Joint, No Wire bond & Lead Frame
- * Low profile package
- * For surface mounted applications
- * Low power loss, High efficiency
- * High current capability
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0

MECHANICAL DATA

Case : Packed with FRP substrate and epoxy underfilled

Terminals : Pure Tin plated (Lead-Free),
solderable per MIL-STD-750, Method 2026.

Polarity : Color Cathode band marking

Weight : 0.055 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	ZGC6MM	UNITS
Maximum repetitive peak reverse voltage	V _{RRM}	6000	Volts
Maximum RMS voltage	V _{RMS}	4200	Volts
Maximum DC blocking voltage	V _{DC}	6000	Volts
Maximum average forward rectified current	I _(AV)	1.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	20	Amps
Typical instantaneous forward voltage at I _F = 1.0A(per die)	V _F	1.2	Volts
Maximum instantaneous forward voltage at I _F = 1.0A	V _F	8	Volts
Maximum DC reverse current at rated DC blocking voltage T _A = 25	I _R	10	uA
Typical junction capacitance (NOTE 1)	C _J	4	pF
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +175	

NOTES : (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts
(2) Preliminary draft.

RATINGS AND CHARACTERISTIC CURVES

FIG.1 - FORWARD CURRENT DERATING CURVE

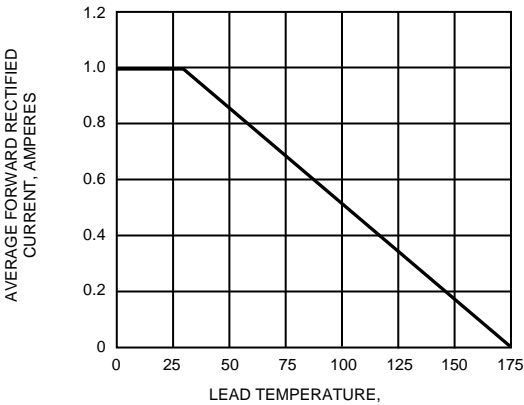


FIG.2 - MAXIMUM NON-REPETITIVE
PEAK FORWARD SURGE CURRENT

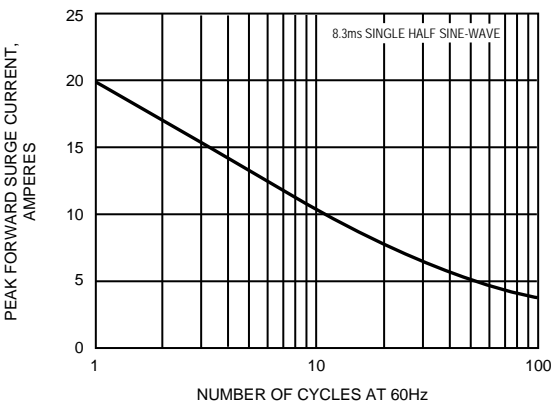


FIG.3 - TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

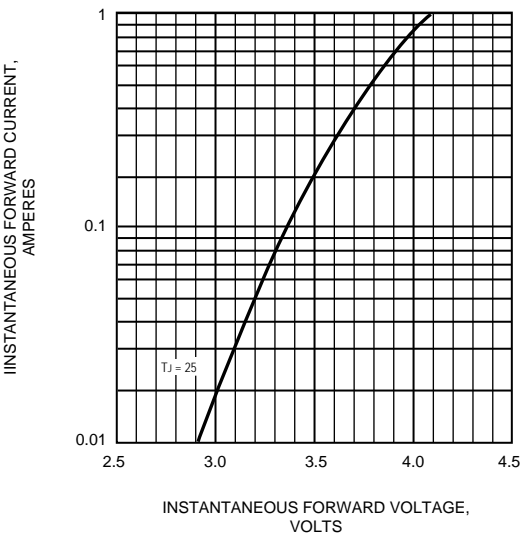


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

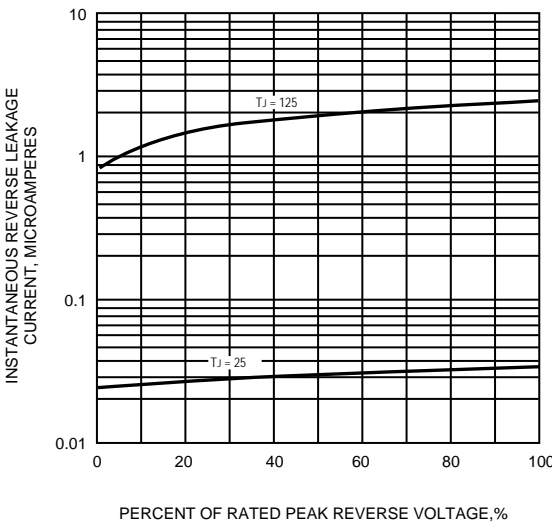


FIG.5 - TYPICAL JUNCTION CAPACITANCE

