



GC20DH THRU GC20MH

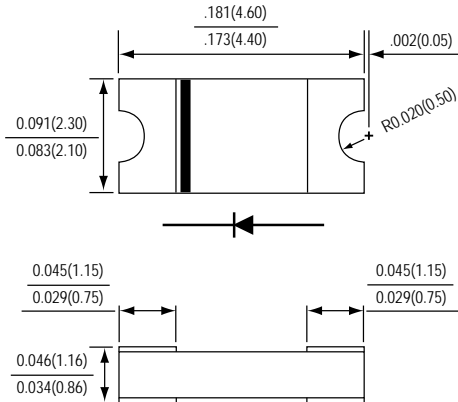
SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 200 to 1000 Volts

Forward Current - 2.0 Amperes

PATENTED

2010



*Dimensions in inches and (millimeters)

SuperChipTM
SUPEREX IITM



FEATURES

- * Halogen-free type
- * Lead free product, compliance to RoHS
- * GPRC (Glass Passivated Rectifier Chip) inside
- * Glass passivated cavity-free junction
- * Lead less chip form, no lead damage
- * Lead-free solder joint, no wire bond & lead frame
- * 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 : Cathode Band, Laser marking
Weight : 0.02 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	GC20					UNITS
		DH	GH	JH	KH	MH	
Maximum repetitive peak reverse voltage	V _{RRM}	200	400	600	800	1000	Volts
Maximum RMS voltage	V _{RMS}	140	280	420	560	700	Volts
Maximum DC blocking voltage	V _{DC}	200	400	600	800	1000	Volts
Maximum average forward rectified current (SEE FIG.1)	I (AV)	2.0					Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I _{FSM}	60					Amps
Maximum instantaneous forward voltage at 2.0 A	V _F	1.0					Volts
Maximum DC reverse current at rated DC blocking voltage	I _R	5 30 80					uA
Typical junction capacitance (NOTE)	C _J	25					pF
Operating junction and storage temperature range	T _J , T _{STG}	-65 to +175					°C

NOTES : Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

RATINGS AND CHARACTERISTIC CURVES GC20DH THRU GC20MH

FIG.1 - FORWARD CURRENT DERATING CURVE

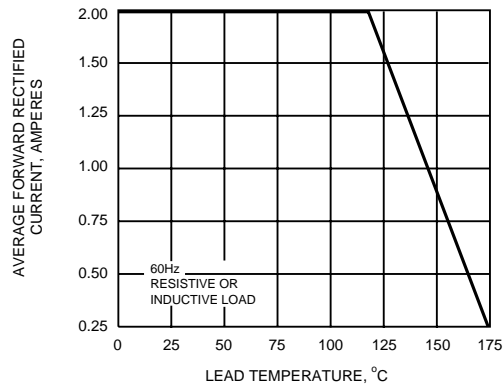


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

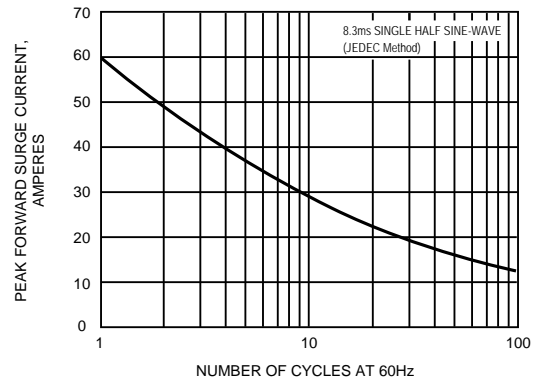


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

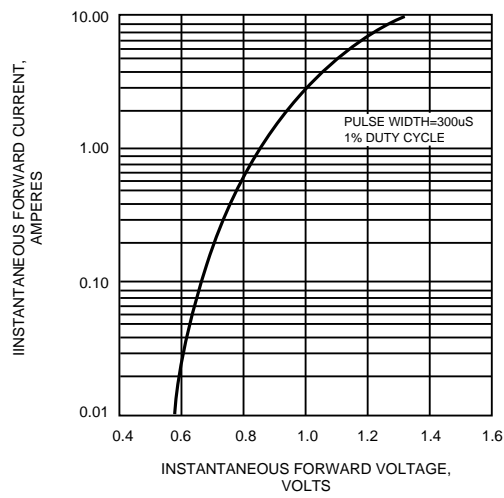


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

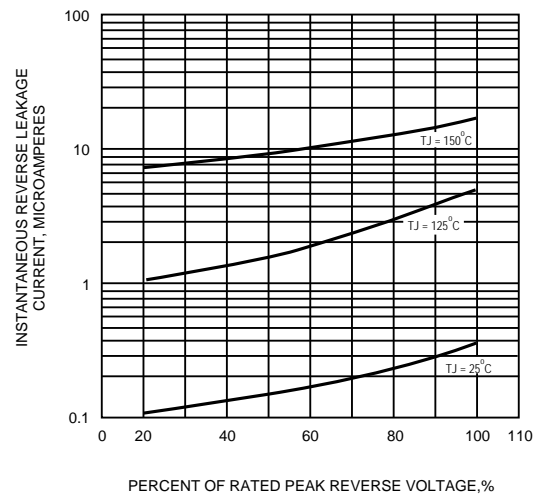


FIG.5 - TYPICAL JUNCTION CAPACITANCE

