



# GF02-20H

## HIGH VOLTAGE SINTERED GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 2000 Volts

Forward Current - 1.0 Ampere

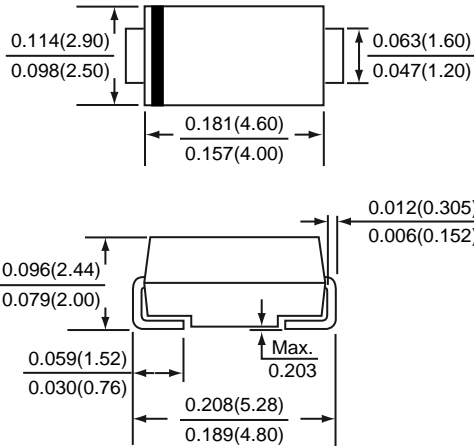
**PATENTED**

SMA/DO-214AC



### FEATURES

- \* Halogen-free type
- \* GPRC (Glass Passivated Rectifier Chip) inside
- \* Glass passivated cavity-free junction
- \* High temperature soldering guaranteed: 260°C/10 seconds, at terminals
- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0



\*Dimensions in inches and (millimeters)

**SUPEREX II**™

### MECHANICAL DATA

**Case :** JEDEC DO-214AC molded plastic over glass body

**Terminals :** Tin Plated, solderable per MIL-STD-750, Method 2026

**Polarity :** Color band denotes cathode end

**Weight :** 0.002 ounces , 0.064 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	GF02-20H	UNITS
Maximum repetitive peak reverse voltage	VRRM	2000	Volts
Maximum RMS voltage	VRMS	1400	Volts
Maximum DC blocking voltage	VDC	2000	Volts
Maximum average forward rectified current (SEE FIG.1)	I (AV)	1.0	Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	30	Amps
Maximum instantaneous forward voltage at 1.0 A	VF	2.00	Volts
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C	IR	5 50	uA
Typical junction capacitance (NOTE 1)	CJ	12	pF
Typical thermal resistance (NOTE 2)	R θJA R θJL	75 27	°C / W
Operating junction and storage temperature range	TJ,TSTG	-65 to +175	°C

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

(2) Thermal resistance from junction to ambient and from junction to lead P.C.B. mounted on 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas

# RATINGS AND CHARACTERISTIC CURVES OF GF02-20H

FIG.1 - FORWARD CURRENT DERATING CURVE

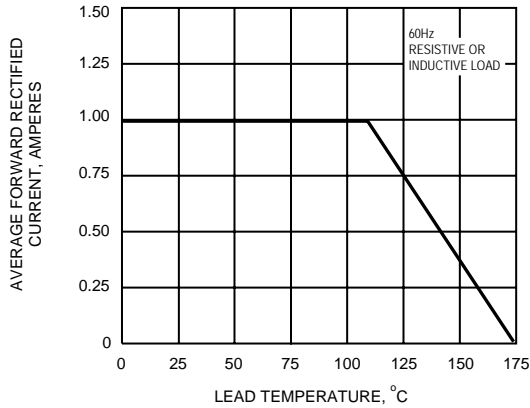


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

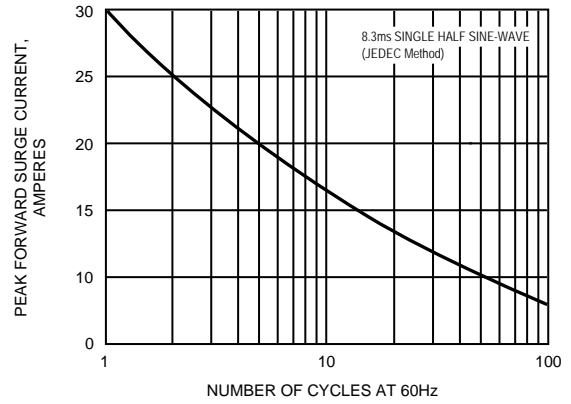


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

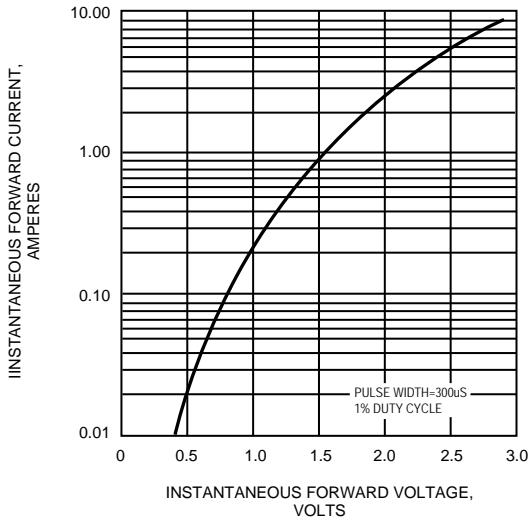


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

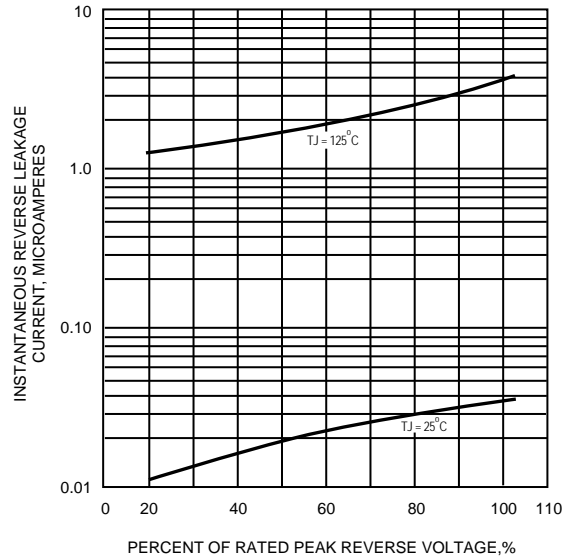


FIG.5 - TYPICAL JUNCTION CAPACITANCE

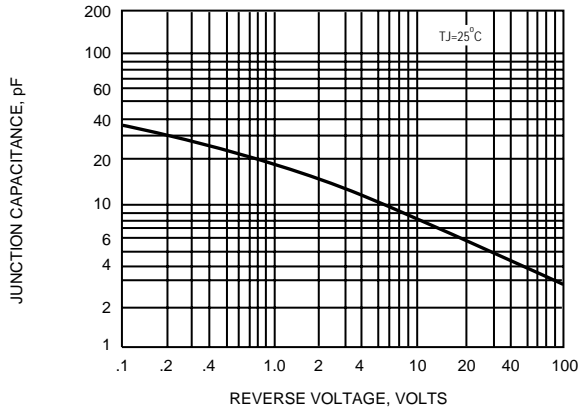


FIG.6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

