



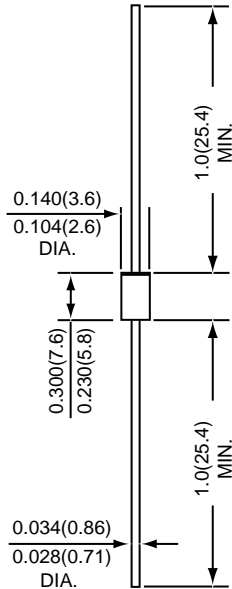
# GP20AH THRU GP20MH SINTERED GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 2.0 Amperes

**PATENTED**

DO-204AC



\*Dimensions in inches and (millimeters)

**SUPEREX II**™



## FEATURES

- \* Halogen-free type
- \* GPRC (Glass Passivated Rectifier Chip) inside
- \* Glass passivated cavity-free junction
- \* Capable of meeting environmental standards of MIL-S-19500
- \* 2.0 Amperes operation at TA=55°C with no thermal runaway
- \* High temperature soldering guaranteed: 260°C/10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3 kg) tension
- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0

## MECHANICAL DATA

**Case :** JEDEC DO-204AC molded plastic over glass body

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

**Polarity :** Color band denotes cathode end

**Weight :** 0.015 ounces , 0.4 gram

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	GP20							UNITS
		AH	BH	DH	GH	JH	KH	MH	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at TA=55°C	I (AV)	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	IFSM	65							Amps
Maximum instantaneous forward voltage at 2.0 A	VF	1.0							Volts
Maximum DC reverse current at rated DC blocking voltage	IR	5 30 80							uA
Typical junction capacitance (NOTE 1)	CJ	25							pF
Typical thermal resistance (NOTE 2)	R θJA R θJL	35 15							°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 at 0.375" (9.5mm) lead lengths, P.C.B. mounted.

# RATINGS AND CHARACTERISTIC CURVES GP20AH THRU GP20MH

FIG.1 - FORWARD CURRENT DERATING CURVE

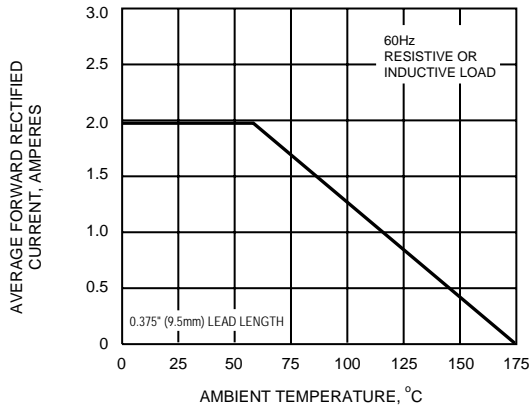


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

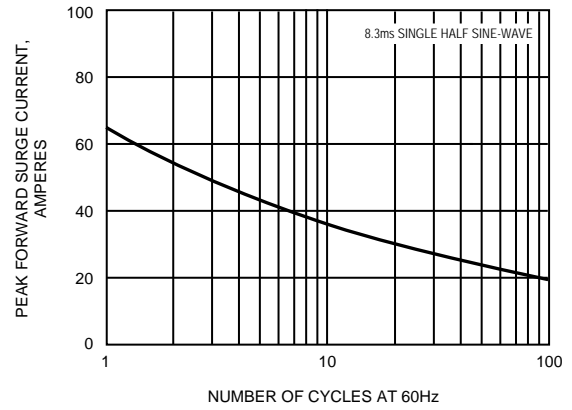


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

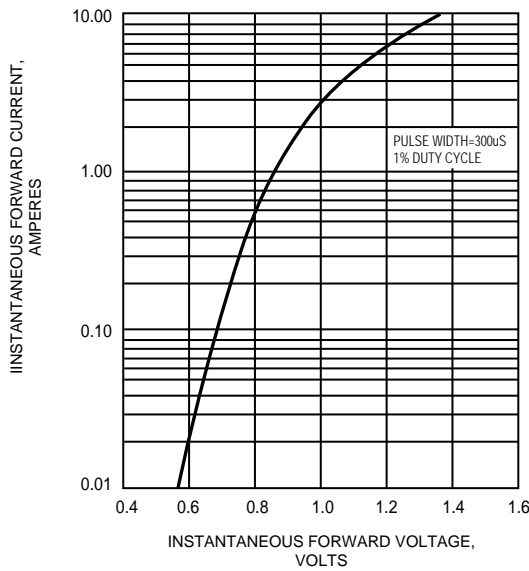


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

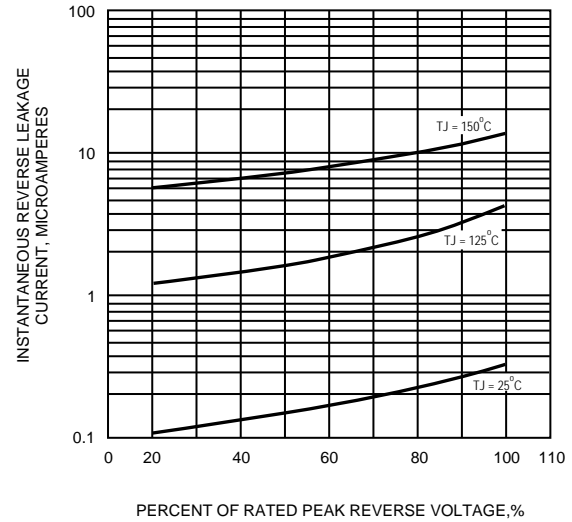


FIG.5 - TYPICAL JUNCTION CAPACITANCE

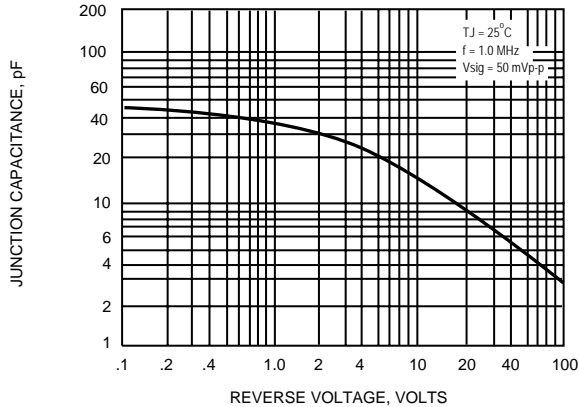


FIG.6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

