GPB30H-20E

SINTERED GLASS JUNCTION RECTIFIER

VOLTAGE: 2000V **CURRENT: 2.0A**

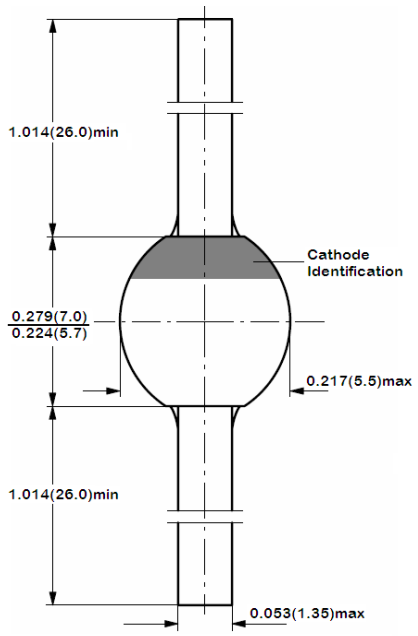
FEATURE

High temperature metallurgically bonded construction
Sintered glass cavity free junction
Capability of meeting environmental standard of MIL-S-19500
High temperature soldering guaranteed
350➡C /10sec/0.375”lead length at 5 lbs tension

MECHANICAL DATA

Terminal: Plated axial leads solderable per J-STD-002
Case: SOD-89 sintered glass case
Polarity: color band denotes cathode
Mounting position: any

SOD-89



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25➡C, unless otherwise stated)

	Symbol	GPB30H-20E	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	2000	V
Maximum RMS Voltage	Vrms	1400	V
Maximum DC blocking Voltage	Vdc	2000	V
Maximum Average Forward Rectified Current 3/8”lead length at Ta=70℃	If(av)	2.0	A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	120	A
Maximum Instantaneous Forward Voltage at 2.0A	Vf	2.0	V
Maximum DC Reverse Current Ta =25℃ at rated DC blocking voltage Ta =150℃	Ir	1.0 100.0	↘A
Maximum Reverse Recovery Time (Note 1)	Trr	2.0	↘S
Typical Junction Capacitance (Note 2)	Cj	55.0	pF
Typical Thermal Resistance (Note 3)	Rth(ja)	20.0	℃/W
Storage and Operating Junction Temperature	Tstg, Tj	-65 to +175	℃

Note:
1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
3. Thermal Resistance from Junction to Ambient at 3/8”lead length, P.C. Board Mounted

RATINGS AND CHARACTERISTIC CURVES GPB30H-20E

FIG. 1 - FORWARD CURRENT DERATING CURVE

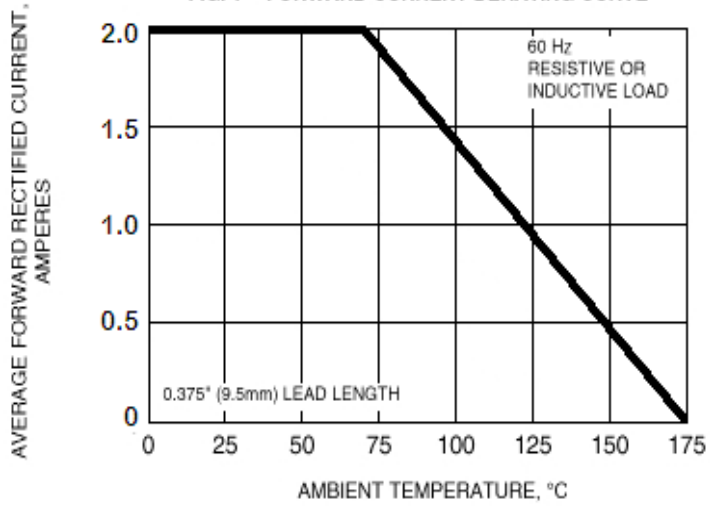


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PER LEG

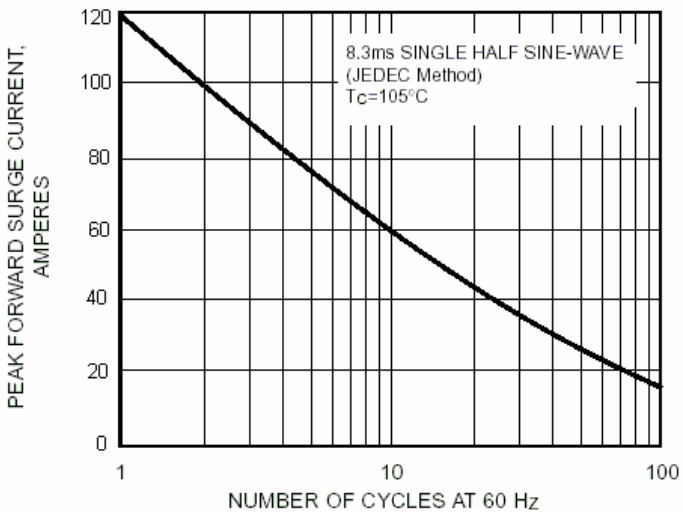


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

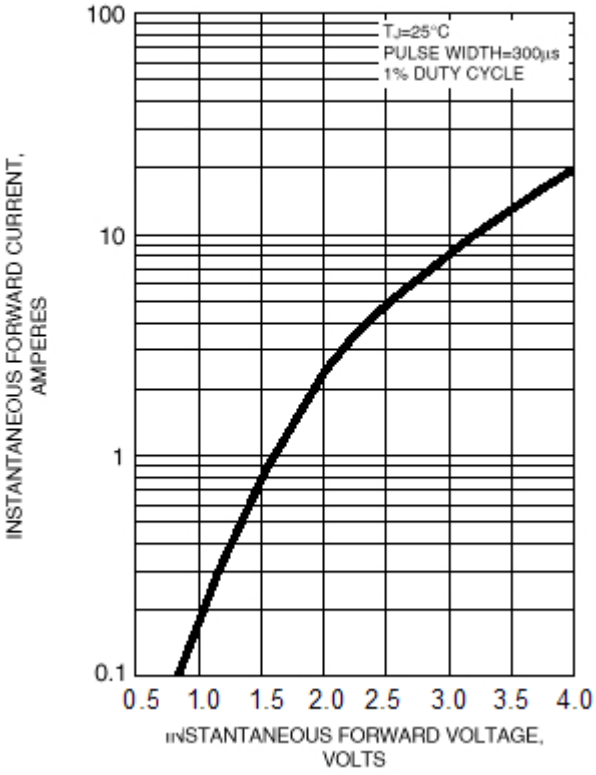


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

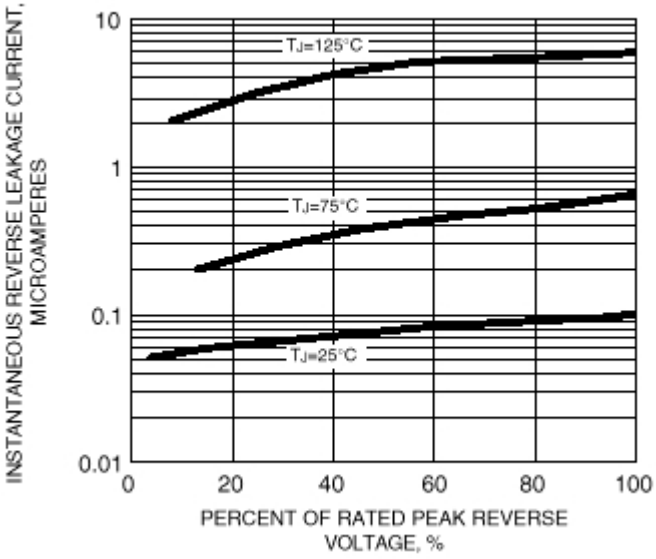


FIG. 5 - TYPICAL JUNCTION CAPACITANCE