



GP10AH THRU GP10YH

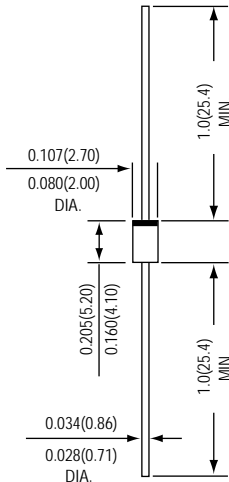
SINTERED GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 1600 Volts

Forward Current - 1.0 Ampere

PATENTED

DO-204AL



*Dimensions in inches and (millimeters)

SUPEREX II™



FEATURES

- * Halogen-free type
- * Compliance to RoHS product
- * GPRC (Glass Passivated Rectifier Chip) inside
- * Glass passivated cavity-free junction
- * Capable of meeting environmental standards of MIL-S-19500
- * 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-204AL molded plastic over glass body

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

Polarity : Color band denotes cathode end

Weight : 0.012 ounces , 0.3 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	GP10										UNITS
		AH	BH	DH	GH	JH	KH	MH	QH	VH	YH	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	1200	1400	1600	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	840	980	1120	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	1200	1400	1600	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length (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	1.0						1.25				Volts
Maximum DC reverse current at rated DC blocking voltage	IR	5 30 50						5 50 -				uA
Typical junction capacitance (NOTE 1)	CJ	10										pF
Typical thermal resistance (NOTE 2)	R θJA	55										°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 at 0.375" (9.5mm) lead lengths, P.C.B. mounted.

RATINGS AND CHARACTERISTIC CURVES GP10AH THRU GP10YH

FIG.1 - FORWARD CURRENT DERATING CURVE

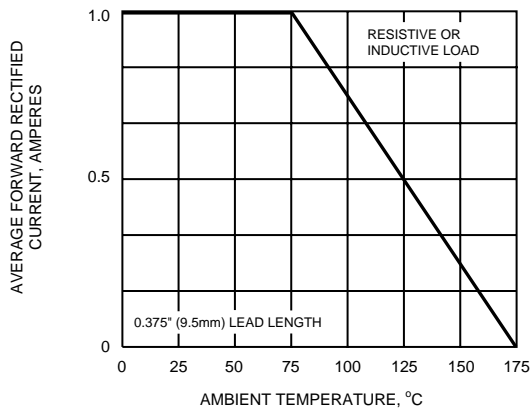


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

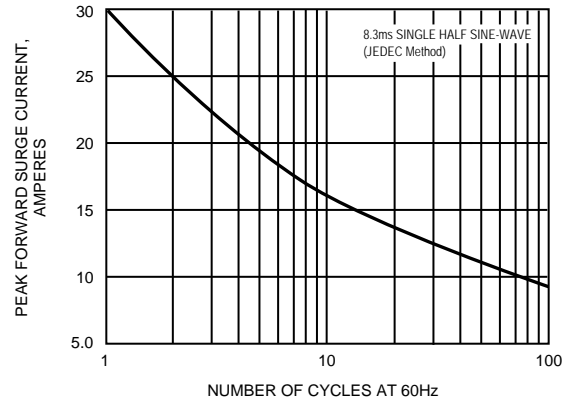


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

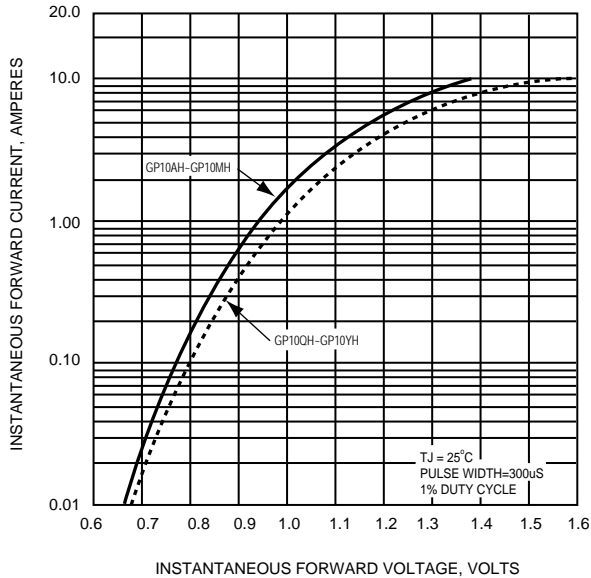


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

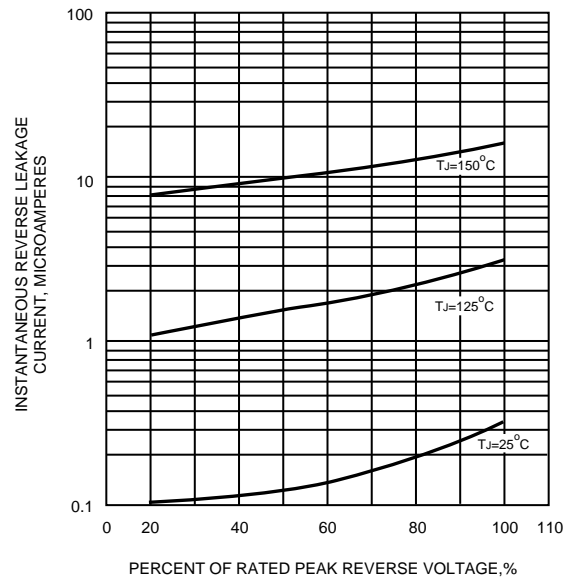


FIG.5 - TYPICAL JUNCTION CAPACITANCE

