



GP10A THRU GP10Y

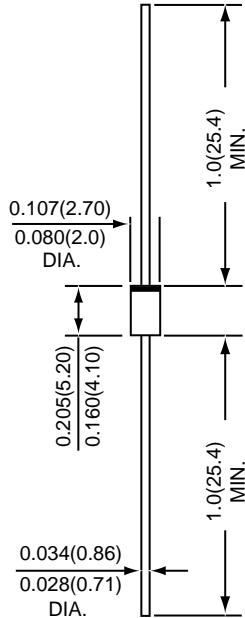
SINTERED GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 50 to 1600 Volts

Forward Current - 1.0 Ampere

PATENTED

DO-204AL



*Dimensions in inches and (millimeters)

SUPEREX II™



FEATURES

- * GPRC (Glass Passivated Rectifier Chip) inside
- * Glass passivated cavity-free junction
- * Capable of meeting environmental standards of MIL-S-19500
- * 1.0 Ampere operation at TA=75°C and 55°C with no thermal runaway
- * Typical IR less than 0.1uA
- * 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 : Plated axial leads , solderable per MIL-STD-750, Method 2026
Polarity : Color band denotes cathode end
Mounting Position : Any
Weight : 0.012 ounces , 0.3 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.	SYMBOLS	GP10													UNITS
		A	B	D	G	J	K	M	N	Q	T	V	W	Y	
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	1100	1200	1300	1400	1500	1600	Volts
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	770	840	910	980	1050	1120	Volts
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	1100	1200	1300	1400	1500	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					25								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						-55 to +150							°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 GP10A THRU GP10Y

FIG. 1 - FORWARD CURRENT DERATING CURVE

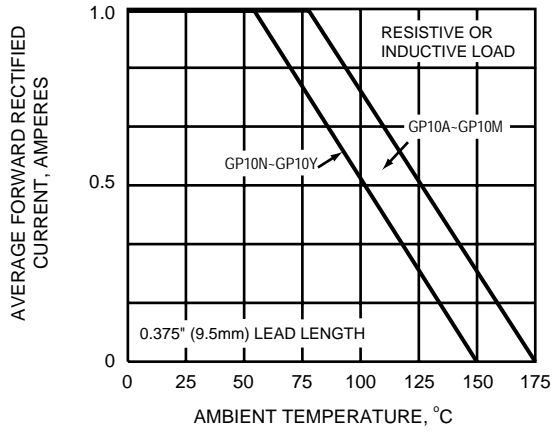


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

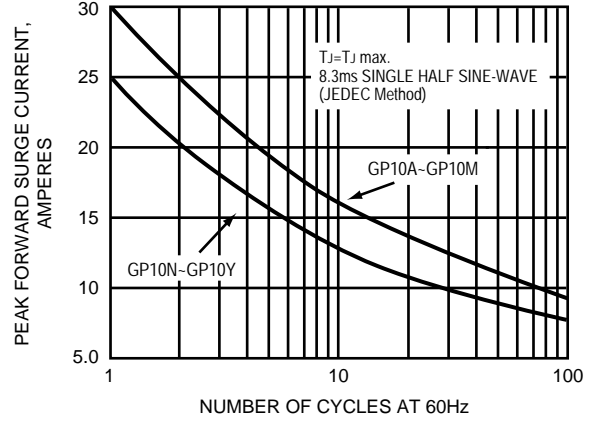


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

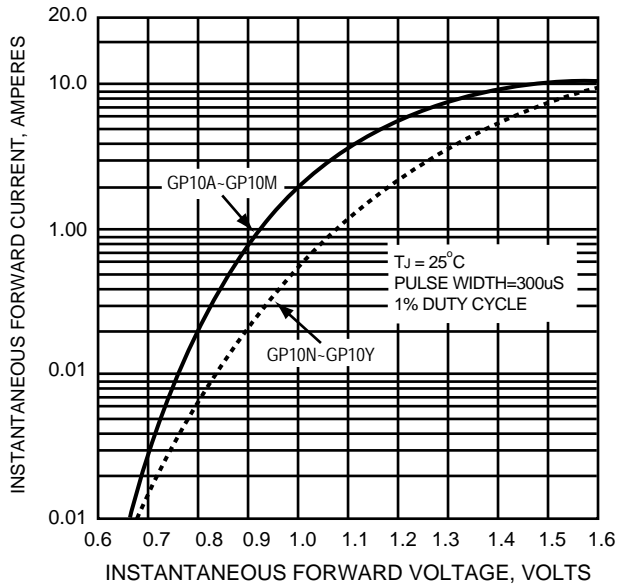


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

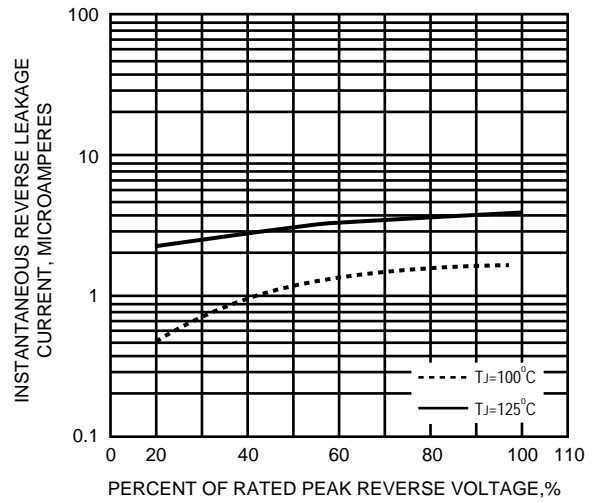


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

