



AUGP20G THRU AUGP20M

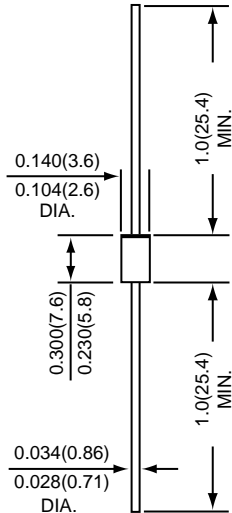
SINTERED GLASS PASSIVATED JUNCTION RECTIFIER

Reverse Voltage - 400 to 1000 Volts

Forward Current - 2.0 Amperes

PATENTED

DO-204AC



*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
- * 2.0 Amperes operation at TA=55 with no thermal runaway
- * High temperature soldering guaranteed: 260 /10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3 kg) tension
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Comply with AEC-Q101

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 ounce, 0.4 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 ambient temperature unless otherwise specified.	SYMBOLS	Rating				UNITS
		AUGP20G	AUGP20J	AUGP20K	AUGP20M	
Maximum repetitive peak reverse voltage	VRRM	400	600	800	1000	Volts
Maximum RMS voltage	VRMS	280	420	560	700	Volts
Maximum DC blocking voltage	VDC	400	600	800	1000	Volts
Maximum average forward rectified current 0.375" (9.5mm) lead length at TA=55	I (AV)	2.0				Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	65				Amps
Maximum instantaneous forward voltage at 2.0 A	VF	1.0				Volts
Current squared time (t<8.3ms), TA=25	I²t	17.5				A²s
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 JA R JL	35 15				/ W
Operating junction and storage temperature range	TJ,TSTG	-65 to +175				

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 AUGP20G THRU AUGP20M

FIG.1 - FORWARD CURRENT DERATING CURVE

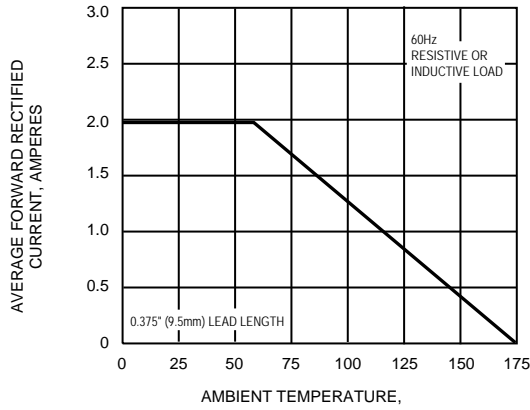


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

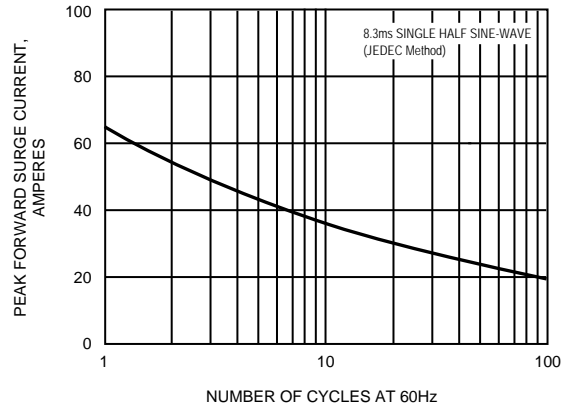


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

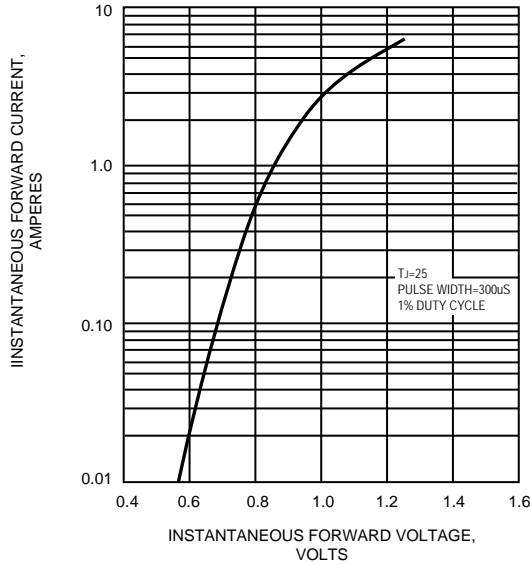


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

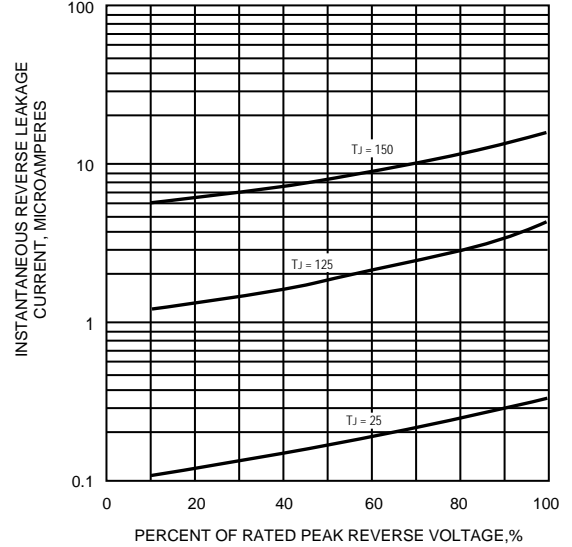


FIG.5 - TYPICAL JUNCTION CAPACITANCE

