



## AUGF10G THRU AUGF10M SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

*Reverse Voltage - 400 to 1000 Volts*

*Forward Current - 1.0 Ampere*

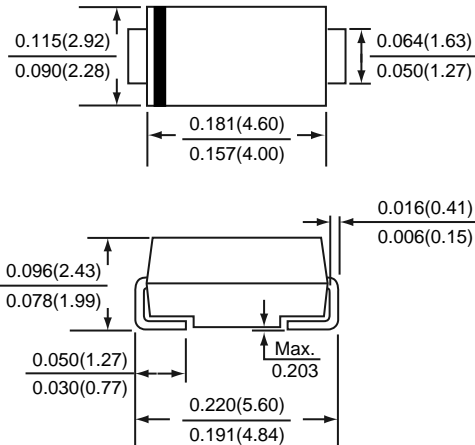
**PATENTED**

SMA/DO-214AC



### FEATURES

- \* GPRC (Glass Passivated Rectifier Chip) inside
- \* Glass passivated cavity-free junction
- \* Ideal for surface mount automotive applications
- \* Built-in strain relief
- \* Easy pick and place
- \* High temperature soldering guaranteed: 260 /10 seconds, at terminals
- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- \* Comply with AEC-Q101



\*Dimensions in inches and (millimeters)

**SUPEREX II**™

### MECHANICAL DATA

**Case :** JEDEC DO-214AC molded plastic over passivated chip

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

**Polarity :** Color band denotes cathode end

**Weight :** 0.002 ounces , 0.064 gram

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 °C ambient temperature unless otherwise specified.	SYMBOLS	Rating				UNITS
		AUGF10G	AUGF10J	AUGF10K	AUGF10M	
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 (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				Volts
Maximum DC reverse current at rated DC blocking voltage	IR	5 30 50				uA
Typical junction capacitance (NOTE 1)	CJ	12				pF
Typical thermal resistance (NOTE 2)	R JA R JL	56 14				/ 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 P.C.B. mounted on 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas

# RATINGS AND CHARACTERISTIC CURVES AUGF10G THRU AUGF10M

FIG. 1 - FORWARD CURRENT DERATING CURVE

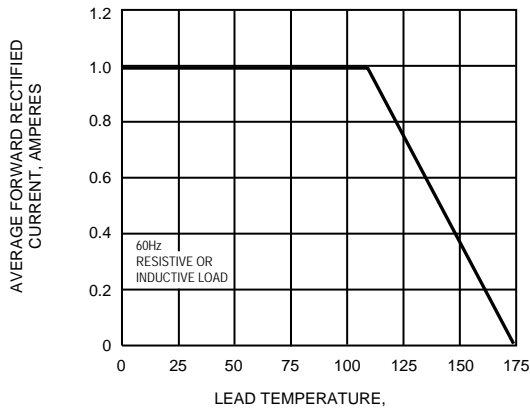


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

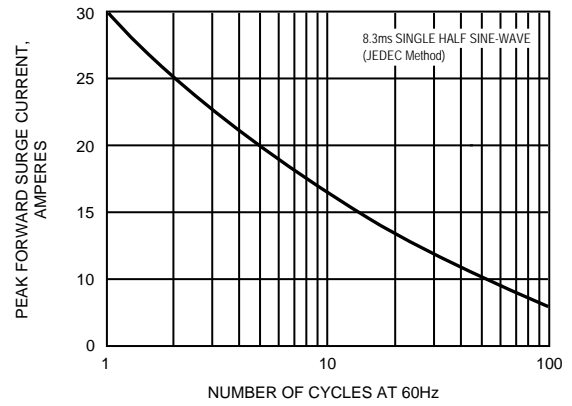


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

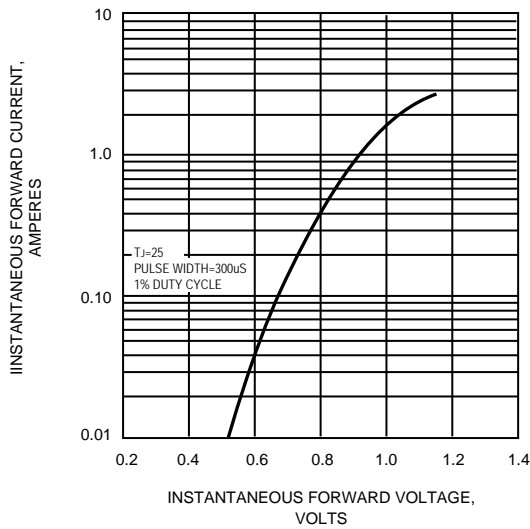


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

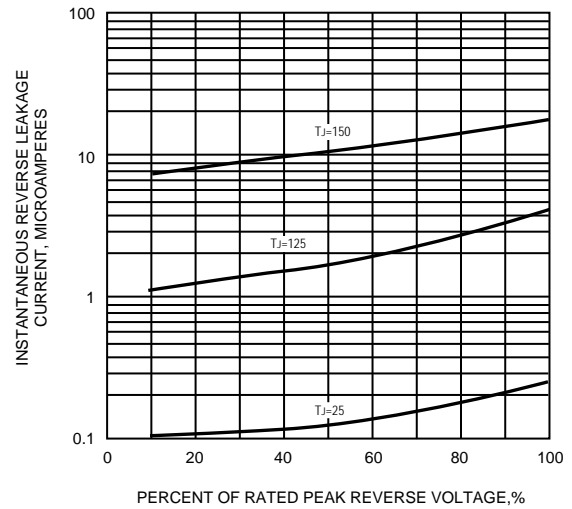


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

