

AUSUGC10JH
● FEATURES

- * Halogen-free type
- * Compliance to RoHS product
- * GPRC (Glass passivated rectifier chip) inside
- * Lead less chip form, no lead damage
- * For surface mounted applications
- * Low power loss, High efficiency
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Comply with AEC-Q101

● APPLICATION

- * Switching mode power supply applications
- * Portable equipment battery applications
- * General rectification
- * DC / DC Converter
- * Telecommunication
- * Automotive

● MECHANICAL DATA

Case : Packed with FRP substrate and epoxy underfilled

Terminals : Pure Tin plated (Lead-Free), solderable per MIL-STD-750, Method 2026.

Polarity : Laser Cathode band marking

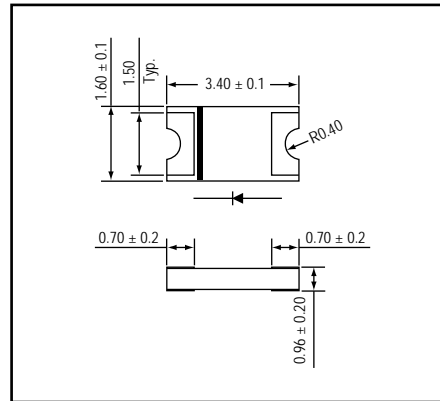
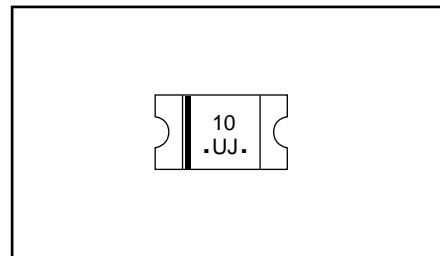
Weight : 0.012 gram

● PACKING

- * 3,000 pieces per 7" (178mm ± 2mm) reel
- * 4 reels per box
- * 6 boxes per carton

● OUTLINE DIMENSIONS
Case : 1206-S

Unit : mm


● MARKING

Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	AUSUGC10JH	Unit
Repetitive peak reverse voltage	V _{RRM}		600	V
Average forward current	I _{F(AV)}		1.0	A
Peak forward surge current	I _{FSM}	8.3ms single half sine-wave	15	A
Reverse recovery time	T _{rr}	I _F = 0.5A, I _R = 1.0A, I _{rr} = 0.25A	35	nS
Operating storage temperature Range	T _J , T _{STG}		-65 to +175	°C

Electrical characteristics

ITEM	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	V _F	I _F = 1.0A	-	1.40	1.70	V
Repetitive peak reverse current	I _{RRM}	V _R = Max. V _{RRM} , T _a = 25 °C	-	0.20	5	uA
Junction capacitance	C _j	V _R = 4V, f = 1.0 MHz	-	8	-	pF
Thermal resistance	R _{th(JA)}	Junction to ambient (Note)	-	126	-	°C/W
	R _{th(JL)}	Junction to lead (Note)	-	55	-	

NOTES : 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.

FIG.1 - FORWARD CURRENT DERATING CURVE

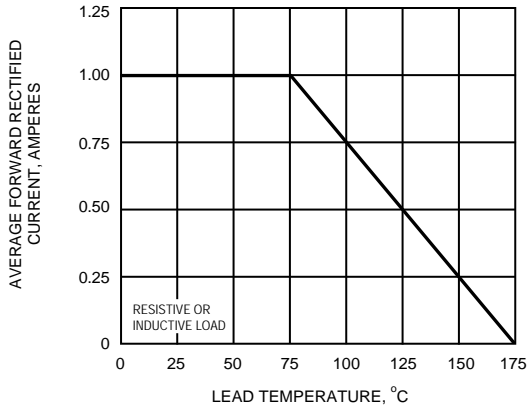


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

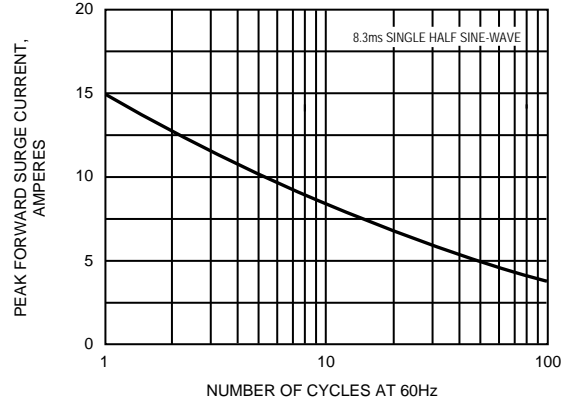


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

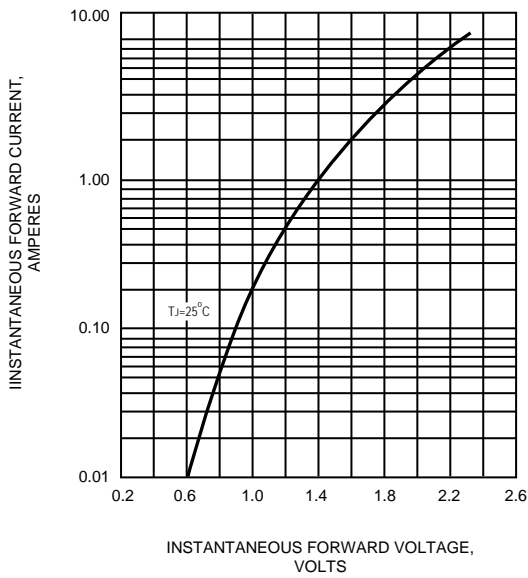


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

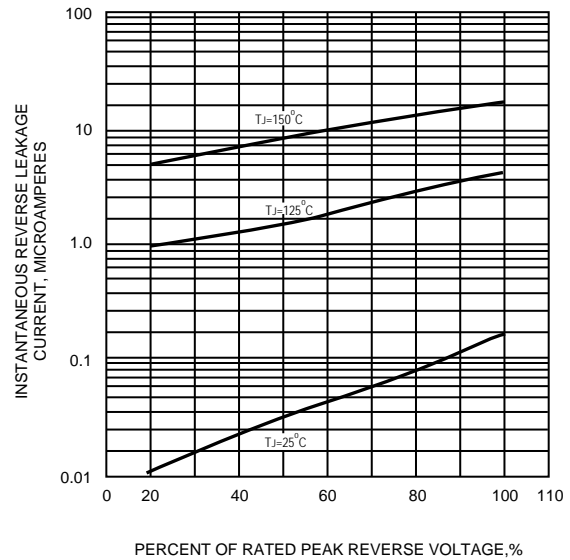


FIG.5 - TYPICAL JUNCTION CAPACITANCE

