

**AUMGC10MH**
**● FEATURES**

- \* Halogen-free type
- \* Compliance to RoHS product
- \* Glass passivated cavity-free junction
- \* Lead less chip form, no lead damage
- \* Low power loss, high efficiency
- \* High current capability
- \* Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- \* Comply with AEC-Q101

**● APPLICATION**

- \* General purpose rectification
- \* Surge absorption
- \* 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 :** Cathode Band, Laser marking

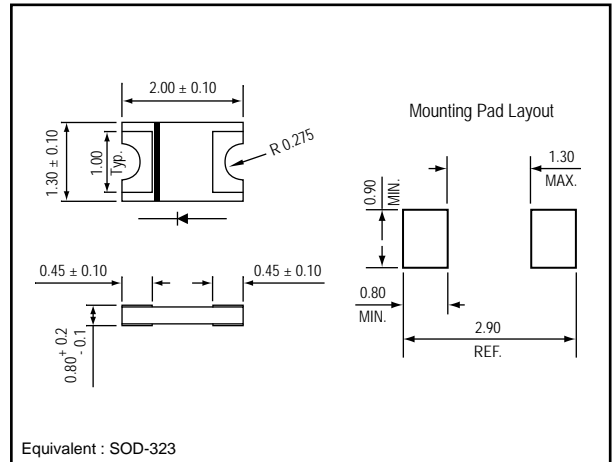
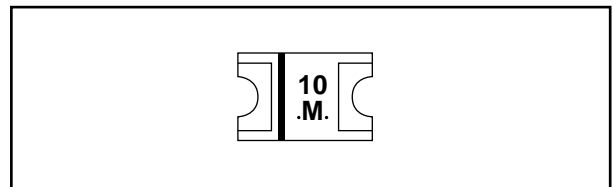
**Weight :** 0.005 gram

**● PACKING**

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

**● OUTLINE DIMENSIONS**
**Case : 0805**

Unit : mm


**● MARKING**

**Absolute Maximum Ratings (Ta = 25 °C)**

ITEM	Symbol	Rating	Unit
Repetitive peak reverse voltage	VRRM	1000	V
RMS voltage	VRMS	700	V
Average forward current	IF(AV)	1.0	A
Peak forward surge current (8.3ms single half sine-wave)	IFSM	15	
Operating junction temperature Range	TJ	-55 to +150	°C
Storage temperature Range	TSTG	-55 to +150	

**Electrical characteristics (Ta = 25 °C)**

ITEM	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF = 0.5A	-	0.94	1.00	V
		IF = 1.0A	-	1.05	1.30	
Repetitive peak reverse current	IRRM	VR = Max. VRRM, Ta = 25 °C	-	0.05	2	uA
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz	-	12	-	pF
Thermal resistance	Rth(JA)	Junction to ambient (NOTE 1)	-	195	-	°C/W
	Rth(JC)	Junction to case (NOTE 1)	-	85	-	

NOTES : (1) Thermal resistance from junction to ambient and from junction to case P.C.B. mounted on recommended copper pad areas.

(2) Preliminary specification.

FIG.1 - FORWARD CURRENT DERATING CURVE

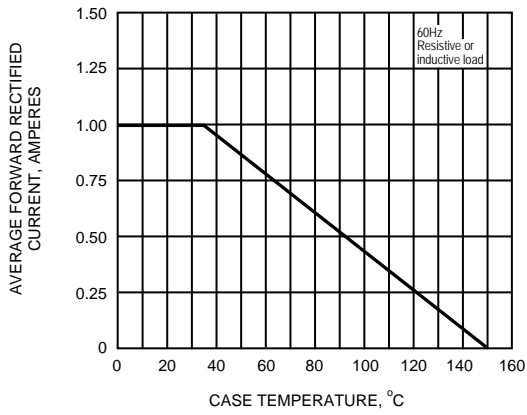


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

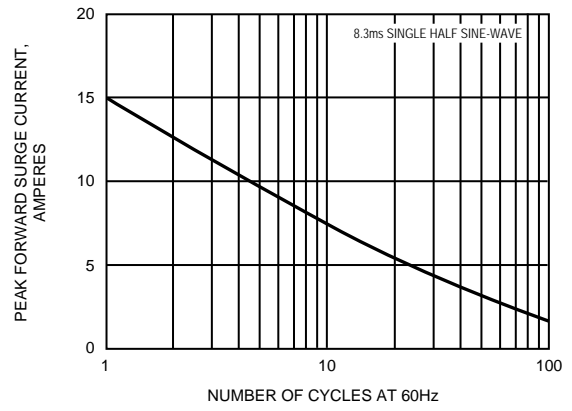


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

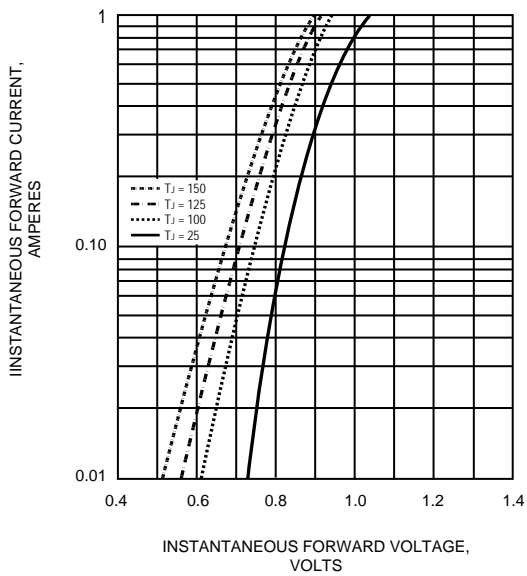


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

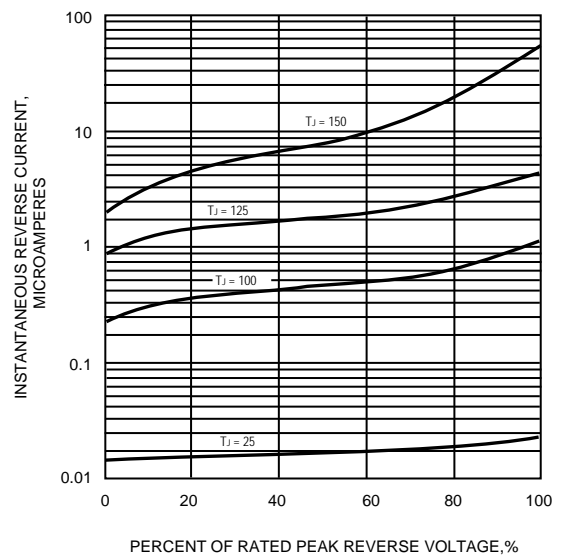


FIG.5 - TYPICAL JUNCTION CAPACITANCE

