

UGC10DAPH AND UGC10GAPH

● FEATURES

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

● APPLICATION

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

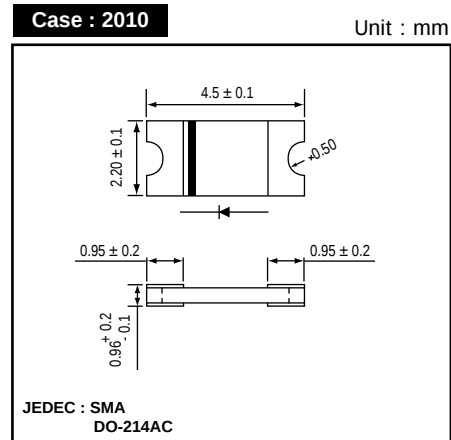
● MECHANICAL DATA

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

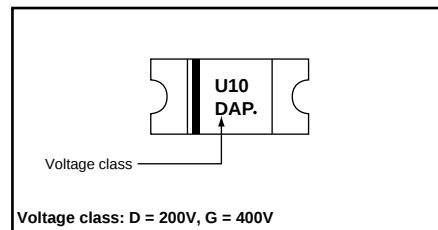
● PACKING

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

● OUTLINE DIMENSIONS



● MARKING



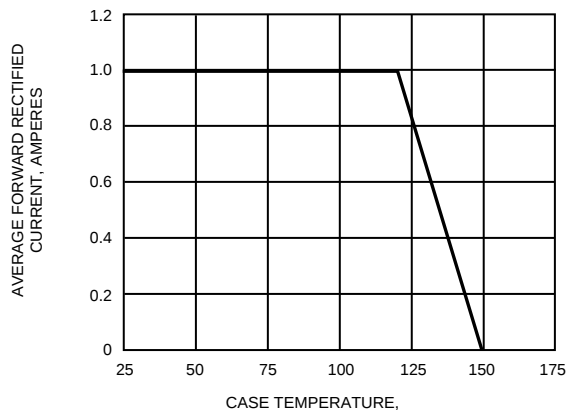
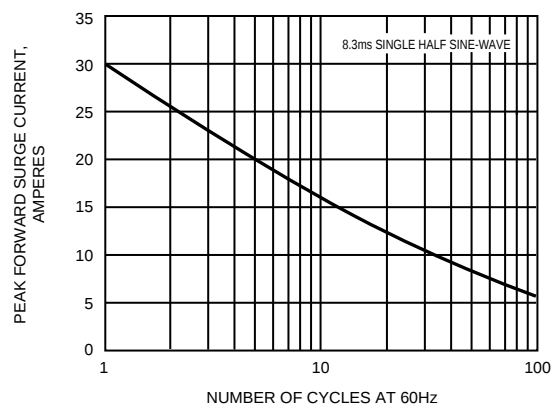
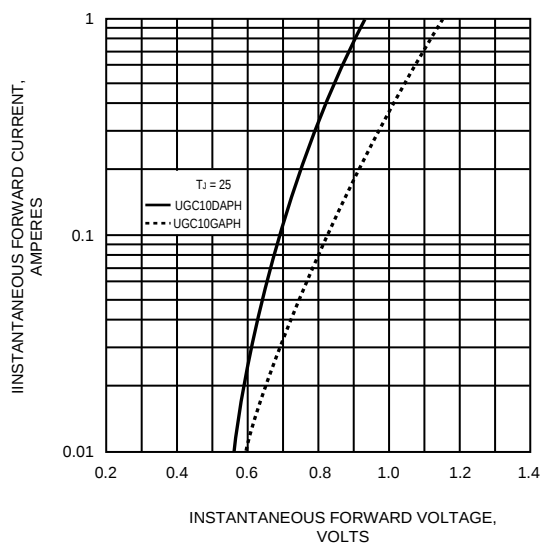
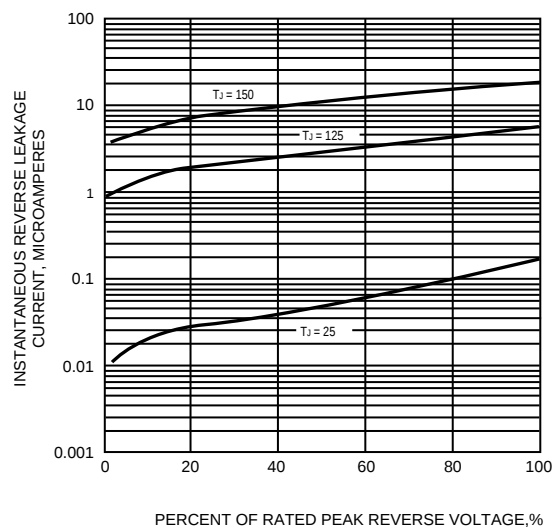
Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating		Unit
			UGC10DAPH	UGC10GAPH	
Repetitive peak reverse voltage	VRRM		200	400	V
Average forward current	IF(AV)		1.0		A
Peak forward surge current	IFSM	8.3ms single half sine-wave	30		A
Reverse recovery time	Trr	IF = 0.5A, IR = 1.0A, Irr = 0.25A	20	25	nS
Operating storage temperature Range	Tj,TSTG		-55 to +150		°C

Electrical characteristics

ITEM	Symbol	Conditions	Type	Typ.	Max.	Unit
Forward voltage	VF	IF = 1.0A	UGC10DH	0.92	0.95	V
			UGC10GH	1.15	1.25	
Repetitive peak reverse current	IRRM	VR = Max. VRRM , Ta = 25 °C		0.20	5	uA
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz	UGC10DH	18	-	pF
			UGC10GH	13	-	
Thermal resistance	Rth(JA)	Junction to ambient (NOTE 1)		85	-	°C/W
	Rth(JC)	Junction to cead (NOTE 1)		18	-	

NOTES : (1) 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.
(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

FIG.5 - TYPICAL JUNCTION CAPACITANCE
