

UGC10DH THRU UGC10KH
● FEATURES

- * Halogen-free type
- * Lead free product, compliance to RoHs
- * GPRC (Glass passivated rectifier chip) inside
- * 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

● APPLICATION

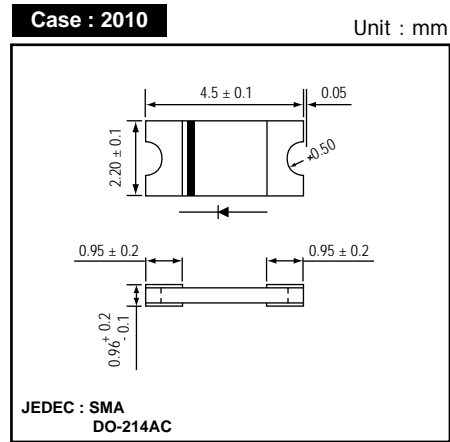
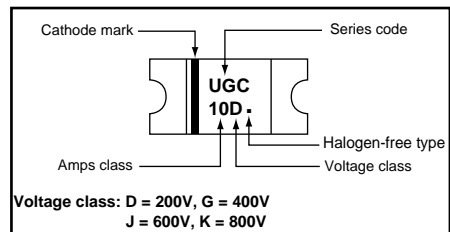
- * Switching mode power supply applications
- * Portable equipment battery applications
- * General rectification
- * DC / DC Converter
- * Telecommunication

● 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
Weight : 0.02 gram

● PACKING

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

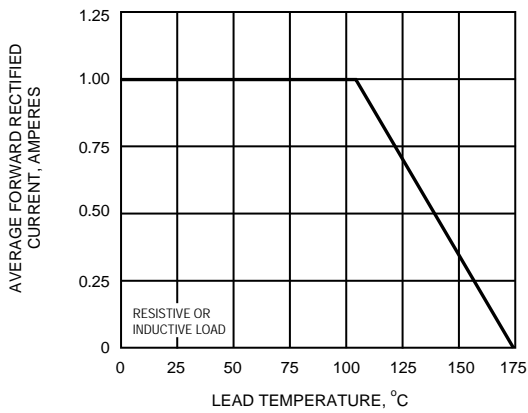
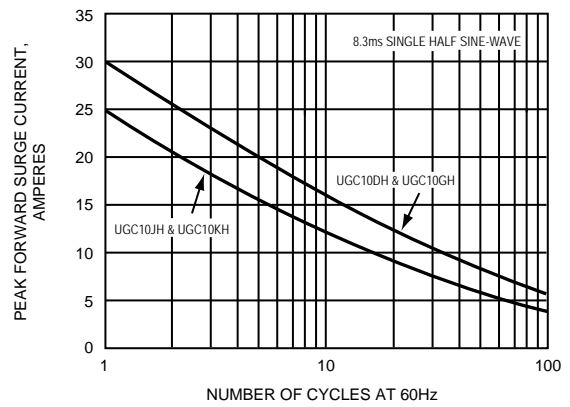
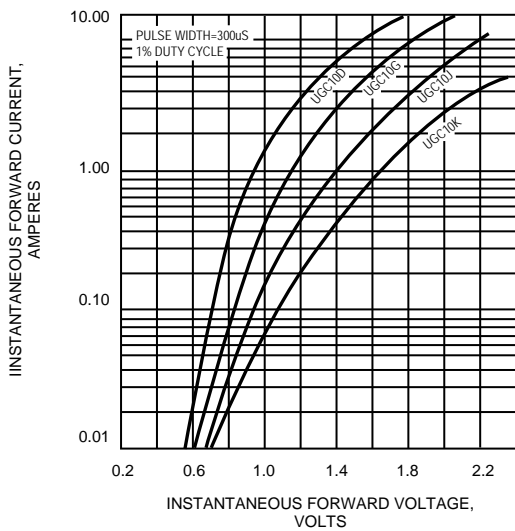
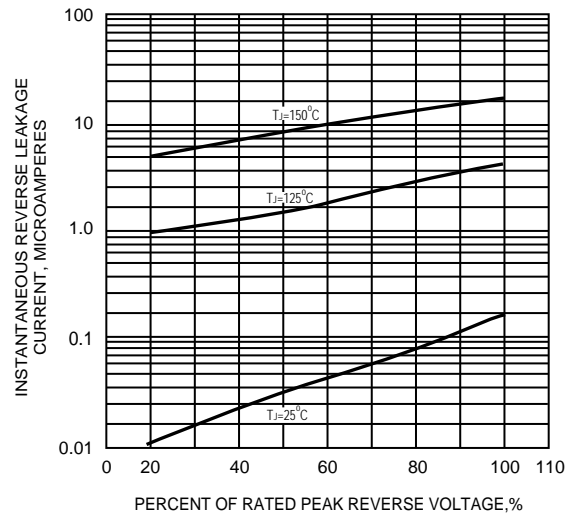
● OUTLINE DIMENSIONS

● MARKING

Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	UGC10				Unit
			DH	GH	JH	KH	
Repetitive peak reverse voltage	VRRM		200	400	600	800	V
Average forward current	IF(AV)		1.0				A
Peak forward surge current	IFSM	8.3ms single half sine-wave	30		25		A
Reverse recovery time	Trr	IF = 0.5A, IR = 1.0A, Irr = 0.25A	35				nS
Operating storage temperature Range	Tj,TSTG		-65 to +175				°C

Electrical characteristics

ITEM	Symbol	Conditions	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF = 1.0A	UGC10DH	-	0.94	0.95	V
			UGC10GH	-	1.15	1.25	
			UGC10JH	-	1.40	1.70	
			UGC10KH	-	1.65	2.20	
Repetitive peak reverse current	IRRM	VR = Max. VRRM , Ta = 25 °C		-	0.20	5	uA
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz		-	8.0	-	pF
Thermal resistance	Rth(JA)	Junction to ambient (NOTE)		-	70	-	°C/W
	Rth(JL)	Junction to lead (NOTE)		-	10	-	

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 draft.

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
