

Z4GP40JH THRU Z4GP40MH

FEATURES

- * Halogen-free type
- * Internal structure with GPRC (glass passivated rectifier chip) inside
- * Compliance to RoHS product
- * Lead less chip form, no lead damage
- * Low power loss, High efficiency
- * High current capability
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Patented ZPAK™ Package Technology

APPLICATION

- * AC/DC Power Supply
- * Communication Equipment

MECHANICAL DATA

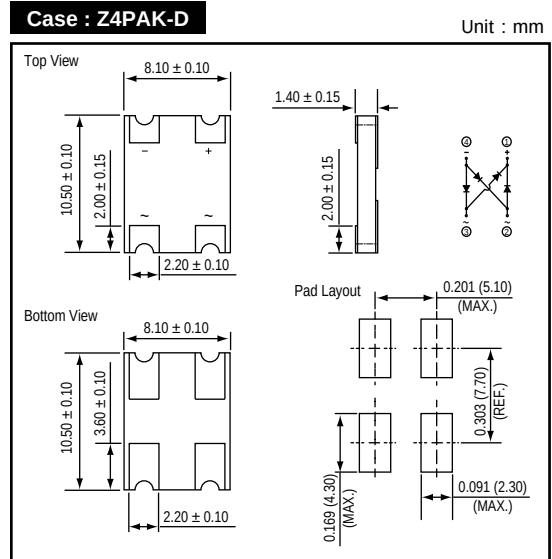
Case : Packed with FRP substrate and epoxy underfilled

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

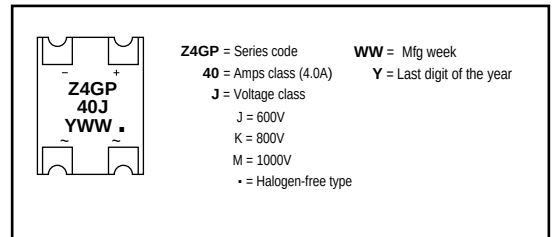
Polarity : Laser marking symbols

Weight : 0.29 gram

OUTLINE DIMENSIONS



MARKING



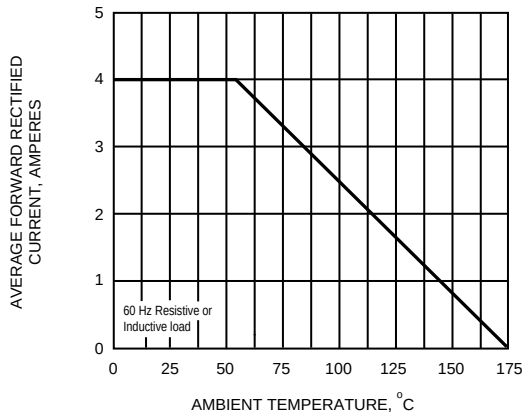
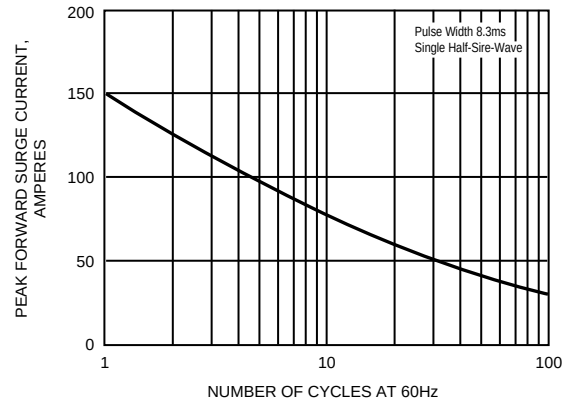
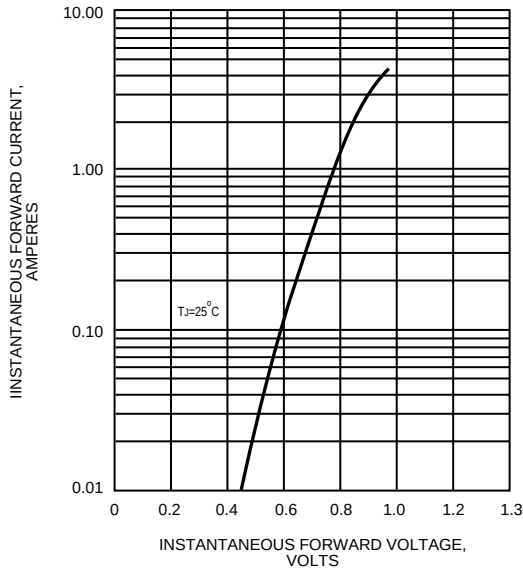
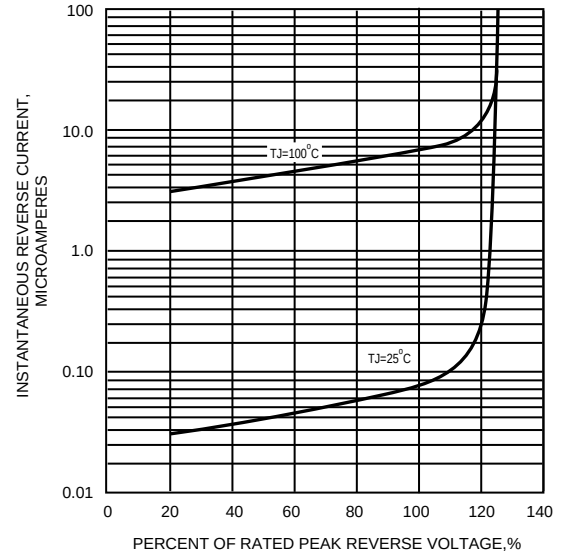
Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating			Unit
			Z4GP40JH	Z4GP40KH	Z4GP40MH	
Repetitive peak reverse voltage	VRRM		600	800	1000	V
Average forward current	IF(AV)		4.0			A
Peak forward surge current	IFSM	8.3ms single half sine-wave	150			A
Operating junction and storage temperature Range	Tj,TSTG		-55 to +175			°C

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	VF	IF = 2.0A IF = 4.0A	- -	0.92 0.95	0.95 1.00	V
Repetitive peak reverse current	IRRM	VR = Max. VRRM , Ta = 25 °C	-	0.08	5	uA
Current squared time	I ² t	t < 8.3ms , Ta = 25 °C	-	93.38	-	A ² s
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz	-	45	-	pF
Thermal resistance	Rth(JA)	Junction to ambient (NOTE)	-	35	-	°C/W
	Rth(JL)	Junction to lead (NOTE)	-	15	-	

NOTES : Thermal resistance, junction to ambient, measured on PC board with 50mm² (0.03mm thick) land 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 PER BRIDGE ELEMENT

FIG. 5 - TYPICAL JUNCTION CAPACITANCE
