

Z4SGP30MDPH

● **FEATURES**

- * Halogen-free type
- * 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

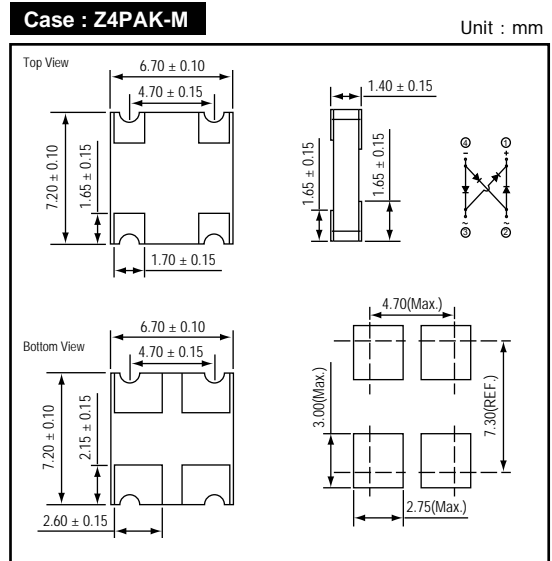
● **MECHANICAL DATA**

Case : Packed with FRP substrate and epoxy underfilled

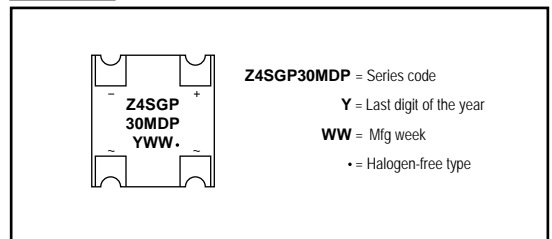
Terminals : Pure Tin plated (Lead-Free),
solderable per MIL-STD-750, Method 2026.

Polarity : Laser marking symbols

● **OUTLINE DIMENSIONS**



● **MARKING**



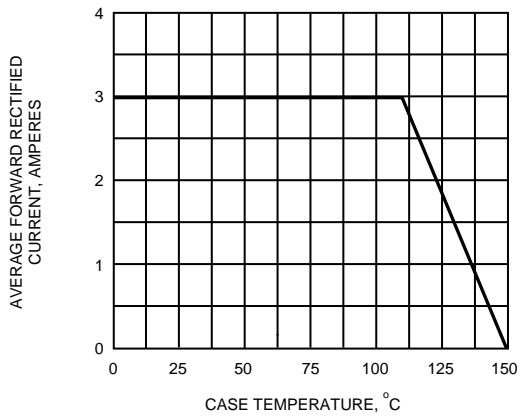
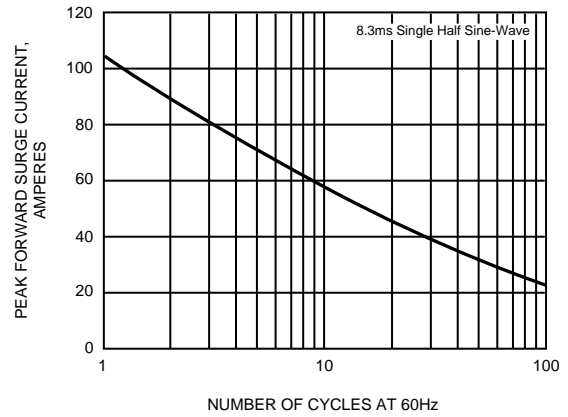
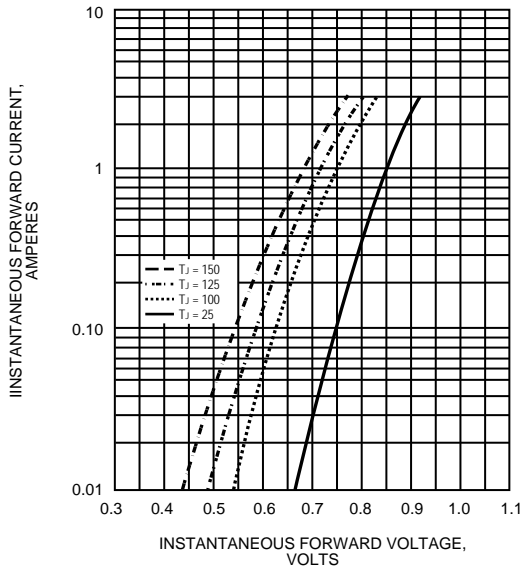
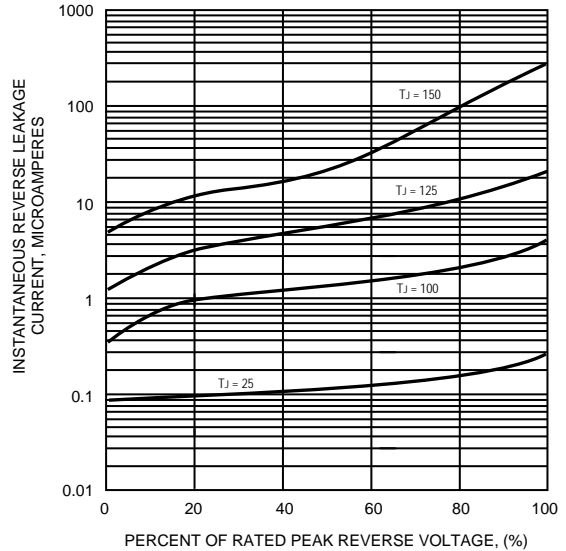
Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	VRRM		1000	V
Average forward current	IF(AV)		3.0	A
Peak forward surge current	IFSM	8.3ms single half sine-wave	105	A
		1.0ms single half sine-wave	210	A
Operating junction and storage temperature Range	Tj, TSTG		-55 to +150	°C

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage	VF	@IF = 1.5A	-	-	0.98	V
		@IF = 3.0A	-	-	1.00	
Repetitive peak reverse current	IRRM	VR = Max. VRRM, Ta = 25 °C	-	0.30	5	uA
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz	-	45	-	pF
Thermal resistance	Rth(JA)	Junction to ambient (NOTE)	-	35	-	°C/W
	Rth(JC)	Junction to case (NOTE)	-	15	-	

NOTES : (1) Thermal resistance, junction to ambient, measured on PC board with 50mm² (0.03mm thick) land 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
