

Z2PK102H AND Z2PK104H

FEATURES

- * Halogen-free type
- * Compliance to RoHS product
- * Lead less chip form, no lead damage
- * Low power loss, High efficiency
- * High current capability, low VF
- * Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- * Patented ZPAK™ Package Technology

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 : Laser Cathode band marking

Weight : 0.012 gram

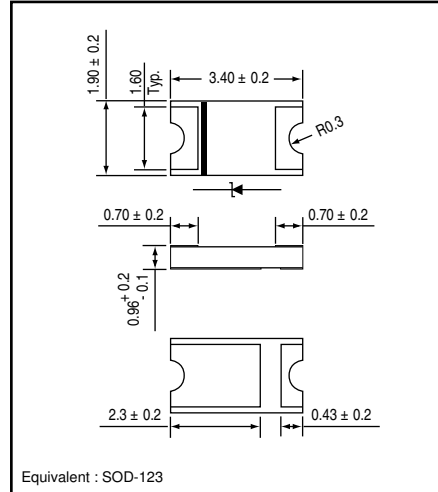
PACKING

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

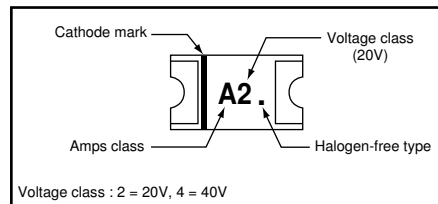
OUTLINE DIMENSIONS

Case : Z2PAK

Unit : mm



MARKING



Absolute Maximum Ratings (Ta = 25 °C)

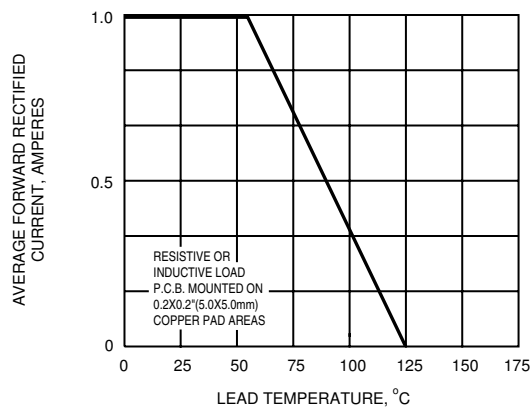
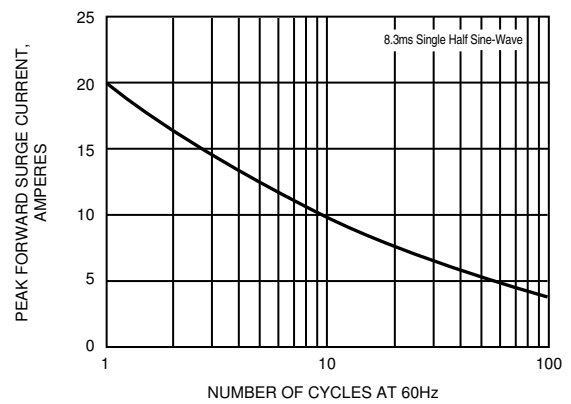
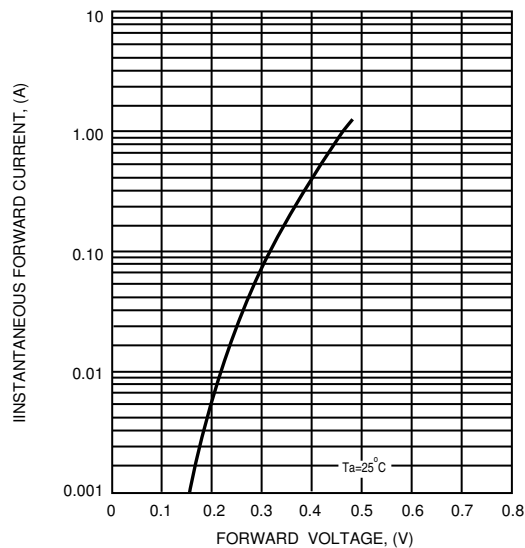
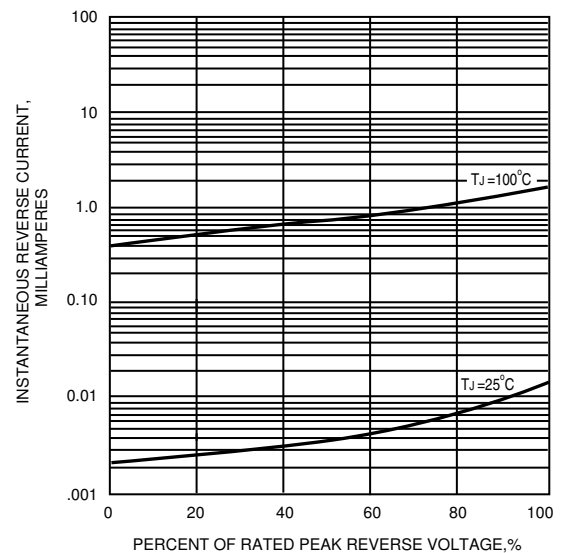
ITEM	Symbol	Conditions	Rating		Unit
			Z2PK102H	Z2PK104H	
Repetitive peak reverse voltage	VRRM		20	40	V
Average forward current	IF(AV)		1.0		A
Peak forward surge current	IFSM	8.3ms single half sine-wave	20		A
Operating junction temperature Range	Tj		-55 to +125		°C
Storage temperature Range	TSTG		-55 to +150		°C

Electrical characteristics (Ta = 25 °C)

ITEM	Symbol	Conditions	Min.	Typ.	Max.	Unit
Forward voltage (NOTE 1)	VF	IF = 0.1A	-	0.32	-	V
		IF = 0.5A	-	0.40	-	
		IF = 1.0A	-	0.46	0.50	
Repetitive peak reverse current (NOTE 1)	IRRM	VR = Max. VRRM, Ta = 25 °C	-	0.015	0.2	mA
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz	-	110	-	pF
Thermal resistance	Rth(JA)	Junction to ambient (NOTE 2)	-	88	-	°C / W
	Rth(JL)	Junction to lead (NOTE 2)	-	28	-	°C / W

NOTES : (1) Pulse test width PW=300usec, 1% duty cycle.

(2) Mounted on P.C. board with 0.2 x 0.2" (5.0 x 5.0mm) copper pad 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

FIG.5 - TYPICAL JUNCTION CAPACITANCE
