

Z3PK8100H
● FEATURES

- * Halogen-free type
- * Lead free product, compliance to RoHS
- * 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
- * High frequency rectification
- * DC / DC Converter
- * Designed as bypass diodes for solar panels

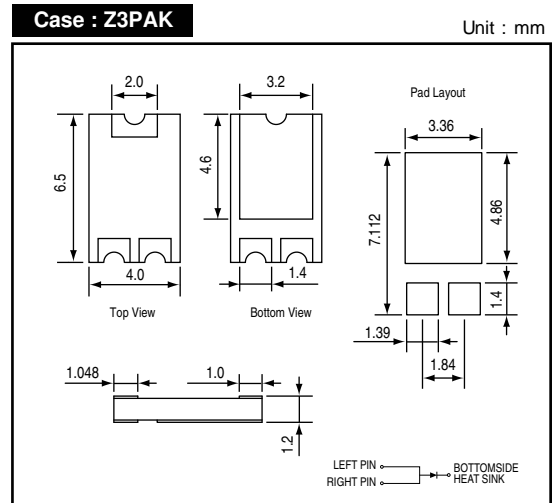
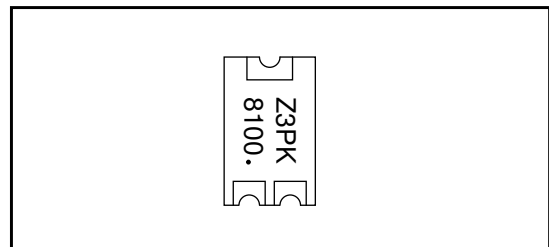
● MECHANICAL DATA

Case : Packed with FRP substrate and epoxy underfilled

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

● PACKING

- * 5,000 pieces per 13" (330mm ± 2mm) reel
- * 2 reels per box
- * 5 boxes per carton

● OUTLINE DIMENSIONS

● MARKING

Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating	Unit
			Z3PK8100H	
Repetitive peak reverse voltage	VRRM		100	V
Average forward current	IF(AV)		8	A
Peak forward surge current	IFSM	8.3ms single half sine-wave	180	A
Operating junction temperature Range	Tj		-55 to +150	°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 = 8A	-	0.75	0.80	V	
Repetitive peak reverse current	IRRM	VR = Max. VRRM	Ta = 25 °C	-	0.01	0.10	mA
			Ta = 125 °C	-	-	50	
Thermal resistance	Rth(JA)	Junction to ambient (NOTE 2)	-	60	-	°C/W	
	Rth(JL)	Junction to lead (NOTE 2)	-	22	-	°C/W	
	Rth(JC)	Junction to case (NOTE 2)	-	20	-	°C/W	

NOTES : (1) Pulse test width PW=300usec , 1% duty cycle.
 (2) Mounted on P.C.B. with 14 x 14mm copper pad areas.
 (3) Preliminary specification.