

Z3PK10100LH
Ultra Low VF = 0.455V at IF = 5A
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

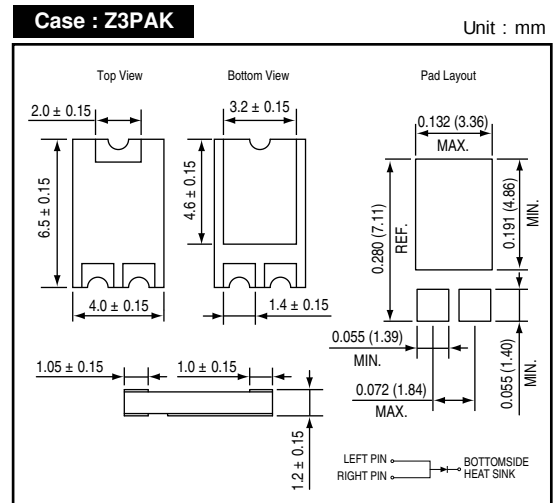
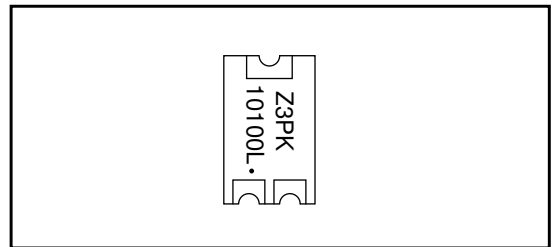
- * Switching mode power supply applications
- * Portable equipment battery applications
- * High frequency rectification
- * DC / DC Converter
- * Designed as bypass diodes for solar panels

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
Repetitive peak reverse voltage	VRRM		100	V
Average forward current	IF(AV)		10	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	VF	@ IF = 5A Ta = 25 °C	-	0.515	-	V
		Ta = 125 °C	-	0.455	-	V
		@ IF = 10A Ta = 25 °C	-	0.63	0.68	V
		Ta = 125 °C	-	0.57	0.62	V
Repetitive peak reverse current	IRRM	@ VR = 70V Ta = 25 °C	-	0.01	-	mA
		Ta = 125 °C	-	6	-	mA
		@ VR = Max. VRRM Ta = 25 °C	-	0.03	0.15	mA
		Ta = 125 °C	-	-	30	mA
Thermal resistance	Rth(JA)	Junction to ambient (NOTE)	-	105.5	-	°C/W
	Rth(JC)	Junction to case (NOTE)	-	3.9	-	°C/W

NOTES : Mounted on P.C.B. with 3.36 x 14.86mm & 1.39 x 1.40mm copper pad areas.