

Z3PK1045RH

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 $ZPAK^{TM}$ Package Technology

APPLICATION

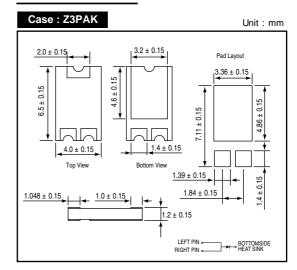
- * Switching mode power supply applications
- * Portable equipment battery applications
- * High frequency rectification
- * DC / DC Converter
- * Designed as bypass diodes for solar panels

MECHANICAL DATA

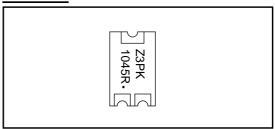
Case: Packed with FRP substrate and epoxy underfilled Terminals: Pure Tin plated (Lead-Free),

solderable per MIL-STD-750, Method 2026.

• OUTLINE DIMENSIONS



MARKING



Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating	
			Z3PK1045RH	Unit
Repetitive peak reverse voltage	VRRM		45	V
Average forward current	lF(AV)		10	Α
Peak forward surge current	IFSM	8.3ms single half sine-wave	300	Α
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.	Тур.	Max.	Unit
Forward voltage (NOTE 1)	VF	IF = 0.01A IF = 0.5A IF = 2A IF = 8A IF = 10A	- - - -	0.18 0.27 0.34 0.42 0.44	- - - - 0.47	V
Repetitive peak reverse current	IRRM	VR = Max. VRRM Ta = 25 °C Ta = 100 °C	-	- -	0.25 15	mA
Thermal resistance	Rth(JA)	Junction to ambient (NOTE 2)	-	114	-	°C/W
	Rth(JC)	Junction to case (NOTE 2)	-	17	-	°C/W

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

(2) Mounted on P.C.B. with (3.36 x 4.86mm & 1.39 x 1.4mm)copper pad areas.

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