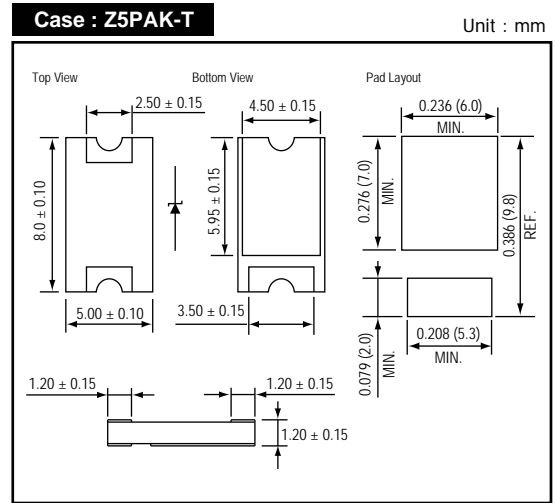
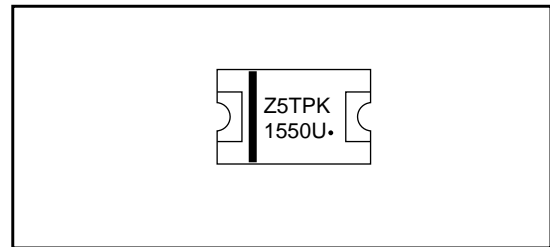


Z5TPK1550UH
OUTLINE DIMENSIONS

MARKING

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.

Absolute Maximum Ratings (Ta = 25 °C)

ITEM	Symbol	Conditions	Rating	Unit
Repetitive peak reverse voltage	VRRM		50	V
Average forward current	IF(AV)		15	A
Peak forward surge current	IFSM	8.3ms single half sine-wave	250	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	Ta = 25 °C	-	0.47	0.52	V
		Ta = 125 °C	-	0.42	-	
Repetitive peak reverse current	IRRM	@VR = Max. VRRM	-	0.12	0.35	mA
		Ta = 125 °C	-	50	75	
Junction capacitance	Cj	VR = 4V, f = 1.0 MHz	-	850	-	pF
Thermal resistance	Rth(JA)	Junction to ambient (NOTE)	-	79	-	°C/W
	Rth(JC)	Junction to case (NOTE)	-	17	-	°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.

FIG.1 - FORWARD CURRENT DERATING CURVE

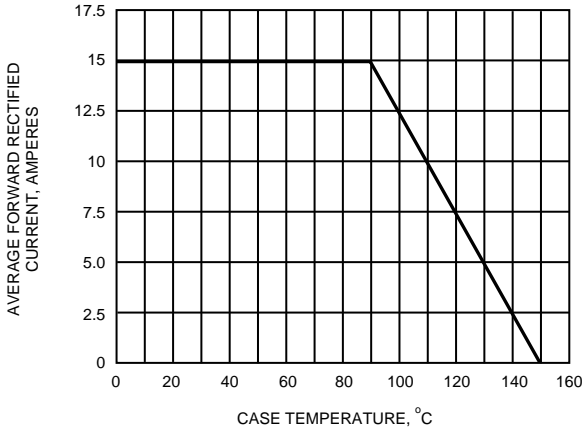


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

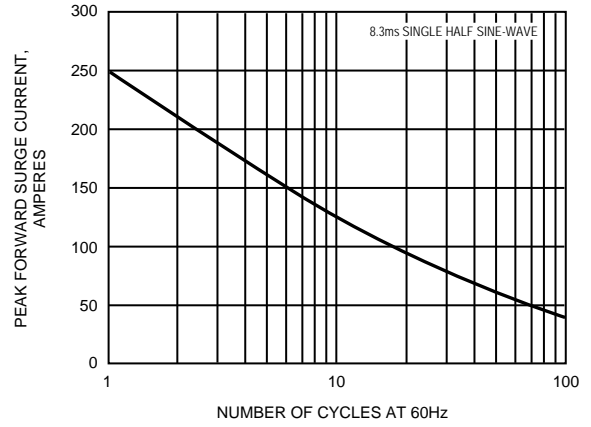


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

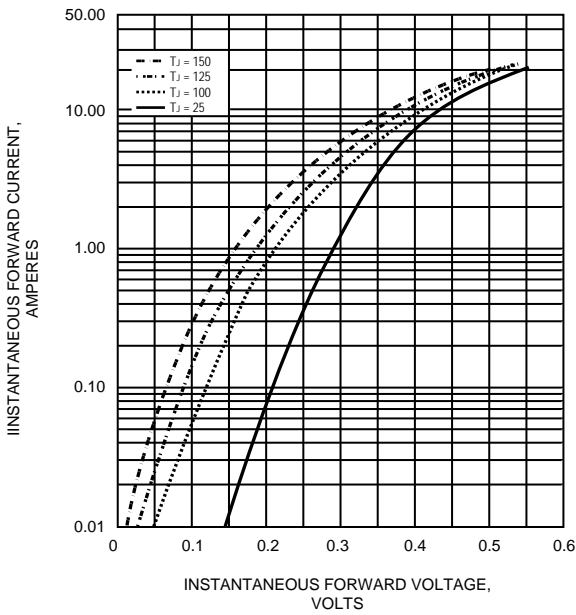


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

