

LXR30J THRU LXR30M
FEATURES

- * Halogen-free type
- * Glass passivated chip junctions
- * Compliance to RoHS product
- * Leadless chip form, no lead damage
- * Low power loss, High efficiency
- * High current capability

APPLICATION

- * AC/DC Power Supply
- * Communication Equipment

MECHANICAL DATA

Case : Packed with FRP substrate and epoxy underfilled

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

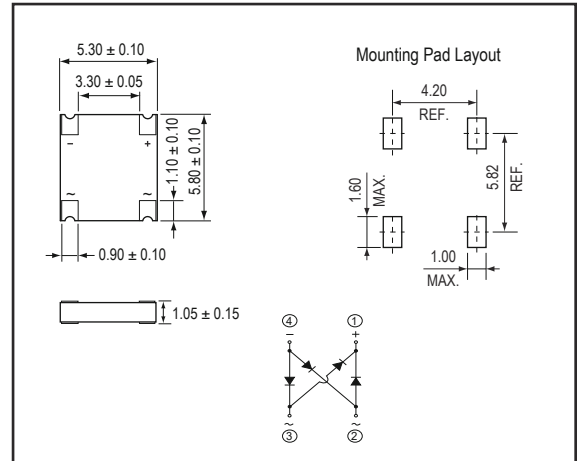
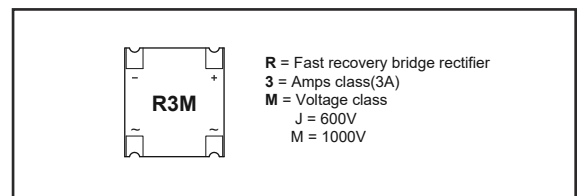
Polarity : Laser marking symbols

PACKING

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

OUTLINE DIMENSIONS
Case : Z4PAK

Unit : mm


MARKING

Absolute Maximum Ratings (Ta = 25°C)

ITEM	Symbol	Conditions	Rating		Unit
			LXR30J	LXR30M	
Repetitive peak reverse voltage	VRRM		600	1000	V
Average forward current	IF(AV)		3		A
Peak forward surge current	IFSM	8.3ms single half sine-wave	60		A
Reverse recovery time	Trr	IF = 0.5A, IR = 1.0A, Irr = 0.25A	500		nS
Operating junction and storage temperature Range	Tj, TSTG		-55 to +150		°C

Electrical characteristics (Ta = 25°C)

ITEM	Symbol	Conditions	Typ.	Max.	Unit
Forward voltage	VF	@ IF = 3A Ta = 25°C	1.10	1.30	V
Repetitive peak reverse current	Irrm	VR = Max. VRRM Ta = 25°C	0.20	5	uA
Current squared time	I ² t	t < 8.3ms, Ta = 25°C	14.9	-	A ² s
Thermal resistance	Rth(JA)	Junction to ambient (NOTE)	95	-	°C/W
	Rth(JC)	Junction to case (NOTE)	15	-	

NOTES : (1) Thermal resistance, junction to ambient, measured on PC board with 50mm² (0.03mm thick) land areas.

FIG.1 - FORWARD CURRENT DERATING CURVE

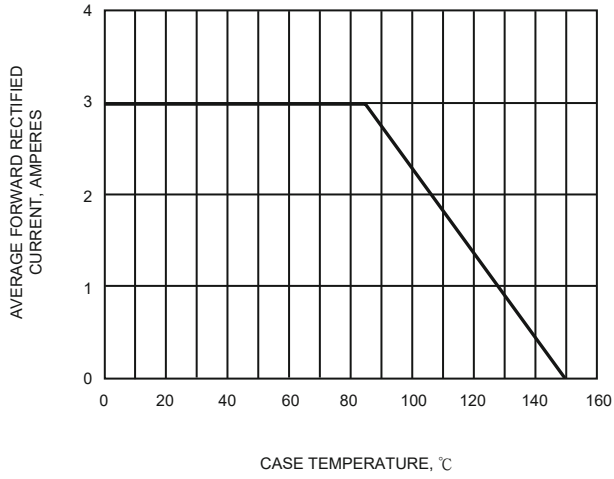


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

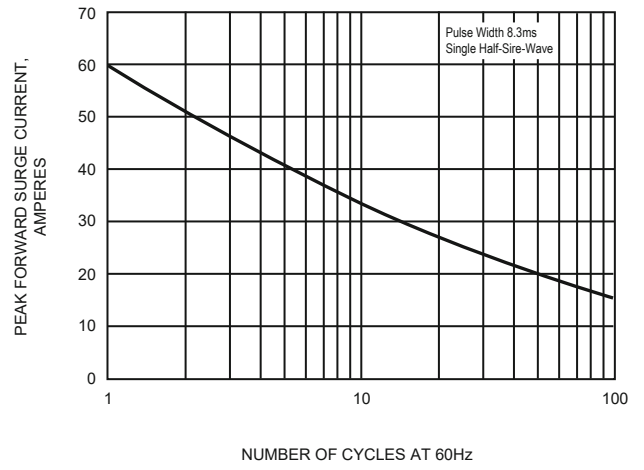


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

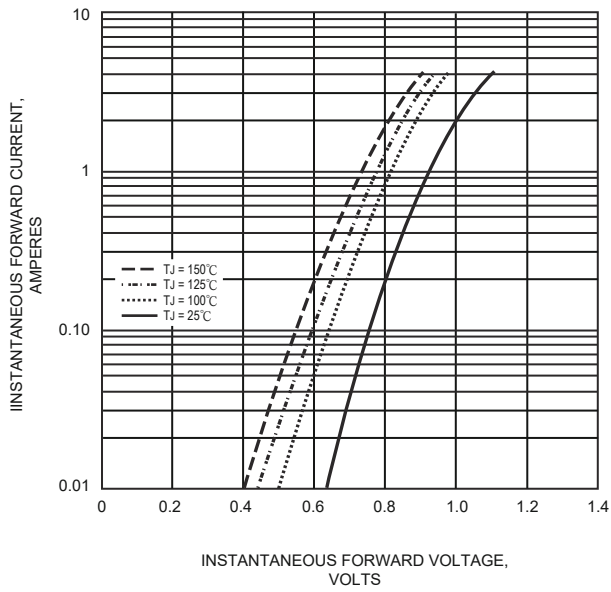


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

