

HYPER-FAST GLASS PASSIVATED RECTIFIER

FEATURES

- Soft, Hyper fast switching capability
- Specially suited for critical mode Power Factor Corrections.
- High reliability and efficiency

MECHANICAL DATA

- Case: ITO-220AC
- Case Material: Plastic material, UL flammability classification 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020C
- Terminals: Lead Free Plating
- · Polarity indicator: As marked on the body
- Weight: 0.06 ounces, 1.70 grams
- Component in accordance to RoHs 2002/95/EC
- ESD capability : HBM_8KV (JESD22-A114)
- Maximum mounting torque = 0.5 N.m (5.1 Kgf.cm)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER SYMBOL LTTH806LF UNIT LTTH806LF Device marking code Note Maximum Repetitive Peak Reverse Voltage 600 V V_{RRM} Average Rectified Output Current @ δ =0.5 See FIG.1 80 А I_{F} Peak Forward Surge Current 8.3ms single half sine-wave 120 А IFSM l² t I^2 t Rating for fusing (3ms $\leq t \leq$ 8.3ms) 60 A²S Storage temperature range °C -55 to +150 T_{STG} °C -55 to +150 Operating junction temperature range ΤJ **TEST CONDITIONS** SYMBOL PARAMETER Min. Max. UNIT Тур. IR=8.0uA Tj=25°C 600 V Breakdown voltage VB ----____ Tj=25°C 1 10 1 30 ---IF=8.0A Forward Voltage (1) V_{F} V <u>Tj=150</u>°C 0.92 1.05 Tj=25°C 0.05 80 ____ VR=600V Leakage Current uA I_R Tj=150°C 40 200 ----IF= 0.5A Reverse recovery time Irr= 0.25A Tj=25°C 50 70 trr --ns IR =1.0A THERMAL CHARACTERISTIC SYMBOL UNIT Typical Typical thermal resistance_Junction to Case 3.5 °C/W $R_{\Theta JC}$

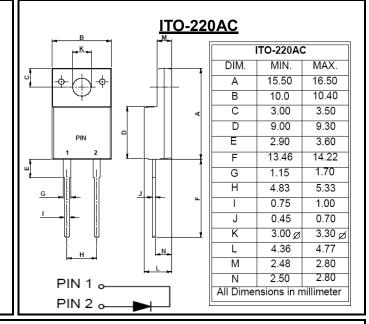
R⊖JL

Typical thermal resistance_Junction to Lead

(1) 300us Pulse Width, 2% Duty Cycle.

(2) Thermal Resistance test performed in accordance with JESD-51. Rthj-L is measured at the PIN 2, Rthj-C is measured at the top centre of body.

REVERSE VOLTAGE – 600Volts FORWARD CURRENT – 8.0 Ampere



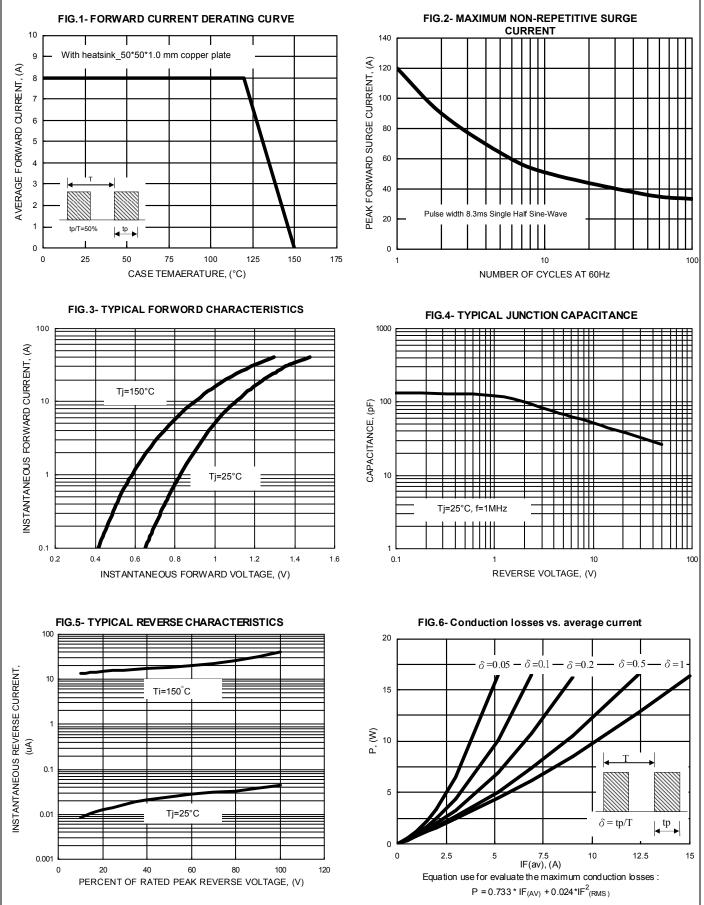
LTTH806LF

REV. 6, Dec-2012, KTGC30

°C/W

4.5

RATING AND CHARACTERISTIC CURVES





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