LITEON LITE-ON SEMICONDUCTORS

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: JEDEC 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, 1.7 grams
- Component in accordance to RoHs 2002/95/EC
- 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.

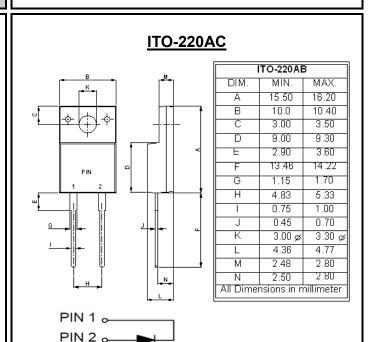
Parameter			Symbol	LTTH806SDF		Unit
Maximum Repetitive Peak Reverse Voltage			V _{RRM}	600		V
Average Rectified Output Current		See FIG.1	١ _F	8.0		А
Forward Voltage (1)	IF=8.0A	Tj=25°C	V _F	3.4		v
Reverse Leakage Current	VR=600V	Tj=25°C Tj=125°C	I _R	15 200		uA
Reverse recovery time	IF= 0.5A Irr= 0.25A IR =1.0A	Tj=25°C	t _{rr}	21		ns
Thermal characteristics (GBD)			Symbol	Value		Unit
Non Repetitive Forward Surge Current Tp=10ms			I _{FSM}	60		А
Operation and Storage temperature range			TJ, T _{STG}	-55 to +175		°C
Typical thermal resistance_Junction to Case (2)			R⊖ _{JC}	2.7		°C/W
Typical thermal resistance_Junction to Lead (2)			R⊖JL	4.5		°C/W
Dynamic electrical characteristics (_{GBD})			Symbol	Typical	Max.	Unit
Reverse recovery time	IF=1A, dIF/dt=-200A/µs, VR=30V	Tj=25°C	t _{rr}	12	18	ns
Reverse recovery current	IF=8 A,	Tj=25°C Tj=125°C	I _{RM}	1.8 5	2.2 6.0	А
Reverse recovery charges	dIF/dt=-200A/µs, V =200V	Tj=25°C Tj=125°C	Q _{rr}	60 220		nC
Note :					REV. 9, Sep-2012, KTGC47	

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

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

Rthj-C is measured at the top centre of body.

GBD means Guaranteed By Design, the spec is basically follow designer simulation. (3)

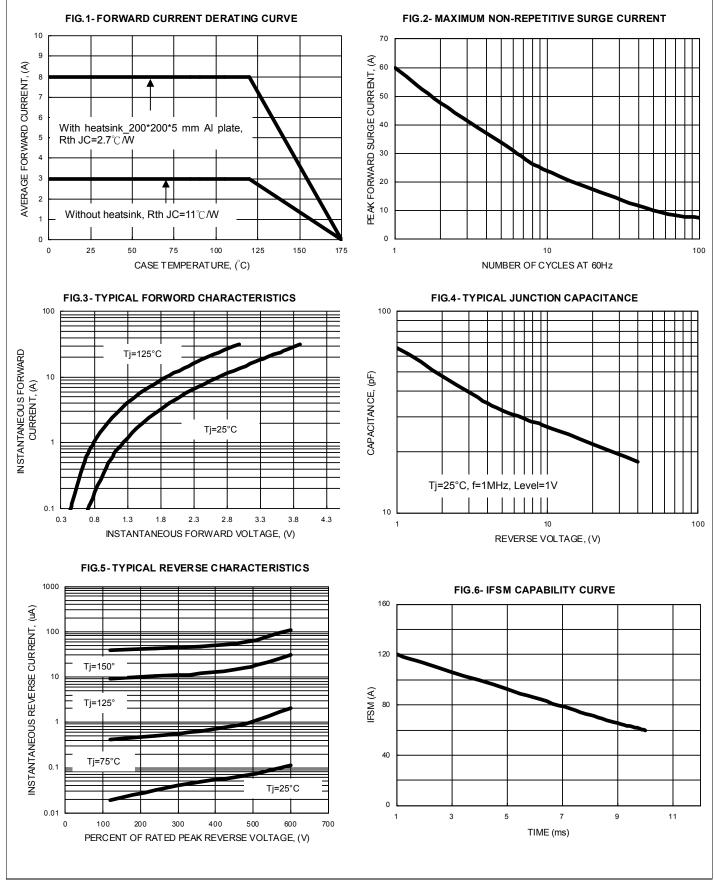


REVERSE VOLTAGE – 600Volts

LTTH806SDF

FORWARD CURRENT – 8.0 Ampere

RATING AND CHARACTERISTIC CURVES LTTH806SDF



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