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 TO-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: 0.08 ounces, 2.24 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

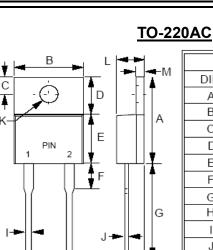
Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER			SYMBOL	LTTH806D		UNIT	
Device marking code			Note	LTTH806D			
Maximum Repetitive Peak Reverse Voltage			V _{RRM}	600		V	
Average Rectified Output Current @ δ =0.5 See FIG.1			I _F	8.0		А	
Peak Forward Surge Current 8.3ms single half sine-wave			I _{FSM}	100		А	
Storage temperature range			T _{STG}	-55 to +150		°C	
Operating junction temperature range			TJ	-55 to +150		°C	
PARAMETER	TEST CO	ONDITIONS	SYMBOL	Min.	Тур.	Max.	UNIT
Breakdown voltage	IR=30uA	Tj=25°C	V _B	600			V
Forward Voltage (1)	IF=8.0A	Tj=25°C Tj=125°C	V _F		2.0 1.4	2.90 1.80	V
Leakage Current	VR=600V	Tj=25°C Tj=125°C	I _R		0.3 20	30 400	uA
Reverse recovery time	IF= 0.5A Irr= 0.25A IR =1.0A	Tj=25°C	t _{rr}		23	25	ns
THERMAL CHARACTERISTIC			SYMBOL	Typical		UNIT	
Typical thermal resistance_Junction to Case (2)			R _{⊖JC}	2.5		°C/W	
Typical thermal resistance_Junction to Lead (2)			R⊖ _{JL}	3.0		°C/W	
Note :			- I I		REV.	2, Sep-2010, K	TGA22

(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.



PIN 1 o • CASE PIN 2 -

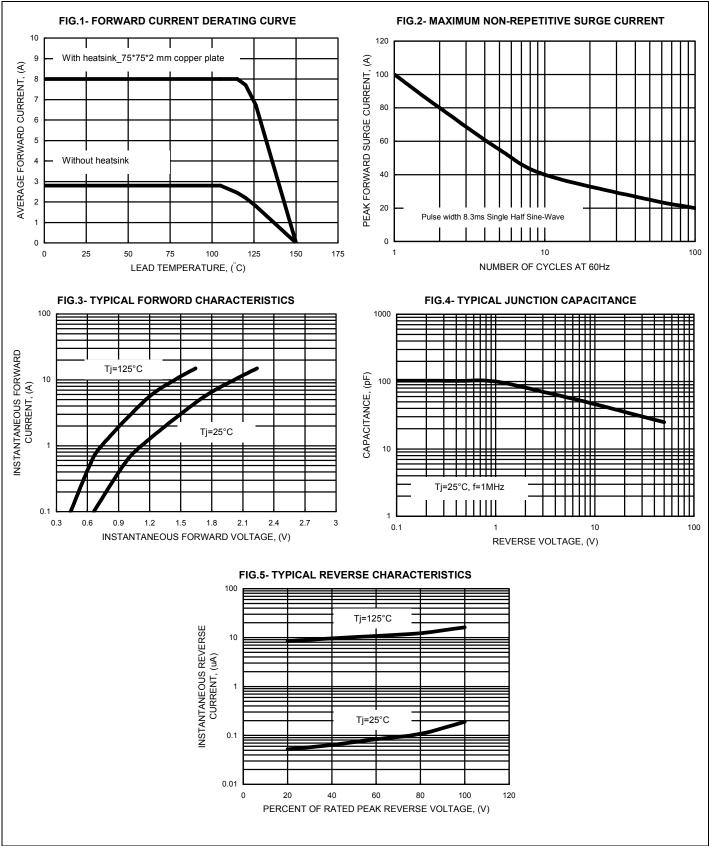
TO-220AC					
DIM.	MIN.	MAX.			
Α	14.22	15.88			
В	9.65	10.67			
С	2.54	3.43			
D	5.84	6.86			
E	8.26	9.28			
F	-	6.35			
G	12.70	14.73			
Н	4.83	5.33			
I	0.51	1.14			
J	0.30	0.64			
K	3.53 Ø	4.09 Ø			
L	3.56	4.83			
М	1.14	1.40			
N	2.03	2.92			

All Dimensions in millimeter

REVERSE VOLTAGE – 600Volts FORWARD CURRENT – 8.0 Ampere

LTTH806D

RATING AND CHARACTERISTIC CURVES LTTH806D



LITEON



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