

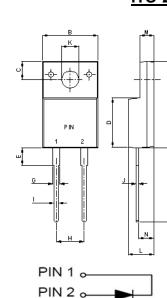
HYPER-FAST GLASS PASSIVATED RECTIFIER

FEATURES

- Specially suited for critical mode Power Factor Corrections.
- · High reliability and efficiency

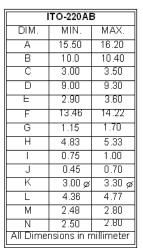
MECHANICAL DATA

- 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
- Maximum mounting torque = 0.5 N.m (5.1 Kgf.cm)



REVERSE VOLTAGE – 600Volts FORWARD CURRENT – 15 Ampere

ITO-220AC



LTTH1506DF

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

PARAMETER			SYMBOL	LTTH1506DF			UNIT
Device marking code			Note	LTTH1506DF			
Maximum Repetitive Peak Reverse Voltage			V _{RRM}	600			V
Average Rectified Output Current @ δ =0.5 See Fig.1			IF	15			А
Peak Forward Surge Current 8.3ms single half sine-wave			I _{FSM}	120			А
Storage temperature range			T _{STG}	-55 to +150			°C
Operating junction temperature range			TJ	-55 to +150			°C
PARAMETER	TEST CONDITIONS		SYMBOL	Min.	Тур.	Max.	UNIT
Breakdown voltage	IR=60uA	Tj=25°C	VB	600			V
Forward Voltage (1)	IF=15A	Tj=25°C Tj=125°C	V _F		2.25 1.60	2.90 1.80	V
Leakage Current	VR=600V	Tj=25°C Tj=125°C Tj=150°C	I _R		0.5 70 300	60 800 2400	uA
Reverse recovery time	IF= 0.5A Irr= 0.25A IR =1.0A	Tj=25°C	t _{rr}		26	30	ns
THERMAL CHARACTERISTIC			SYMBOL	Typical			UNIT
Typical thermal resistance_Junction to Case			R⊕ _{JC}	3.0			°C/W
Typical thermal resistance_Junction to Lead			R⊖ _{JL}	3.0			°C/W
Note :			1		REV.	6, Sep-2012, K	TGC33

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

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

RATING AND CHARACTERISTIC CURVES LTTH1506DF

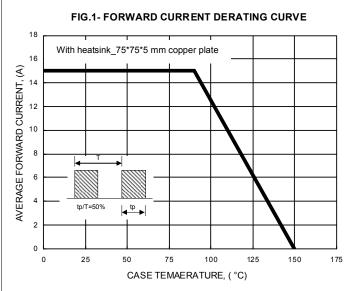


FIG.3- TYPICAL FORWORD CHARACTERISTICS

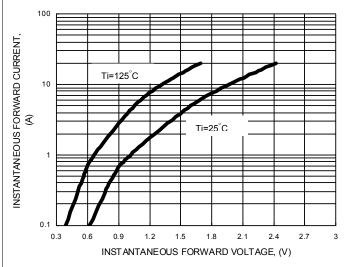
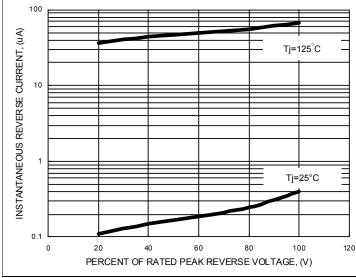


FIG.5- TYPICAL REVERSE CHARACTERISTICS



140 PEAK FORWARD SURGE CURRENT, (A) 120 100 80 60 40 Pulse width 8.3ms Single Half Sine-Wave 20 0 1 10 100 NUMBER OF CYCLES AT 60Hz



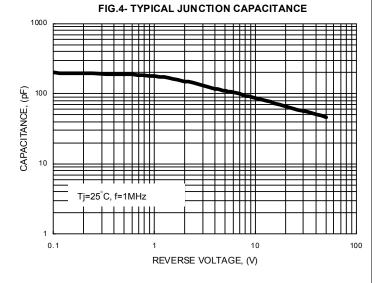


FIG.6- Conduction losses vs. average current

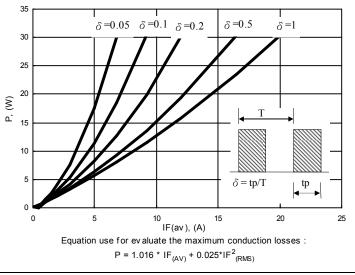
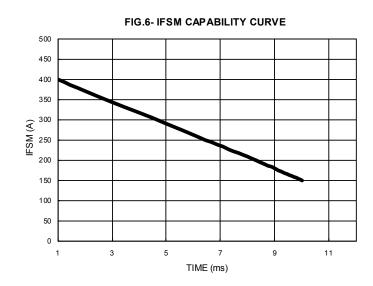




FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

RATING AND CHARACTERISTIC CURVES LTTH1506DF

LITEON





Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.