

LTTH806SDW

HYPER-FAST GLASS PASSIVATED RECTIFIER

REVERSE VOLTAGE – 600Volts FORWARD CURRENT – 8.0 Ampere

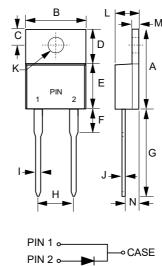
FEATURES

- · Soft, Hyper fast switching capability
- Specially suited for Continuous mode Power Factor Corrections.
- · High reliability and efficiency
- Qualified according to AEC-Q101 Rev_C

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: 0.06 ounces, 2.24 grams
- Component in accordance to RoHs 2002/95/EC
- Maximum mounting torque = 0.5 N.m (5.1 Kgf.cm)

TO-220AC



TO-220AC						
DIM.	MIN.	MAX.				
Α	14.40	15.20				
В	9.65	10.67				
С	2.54	3.43				
D	5.84	6.86				
Е	8.26	9.28				
F	-	4.20				
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 ∅				
L	3.56	4.83				
М	1.14	1.40				
N	2.03	2.92				
All Dimensions in millimeter						

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter			Symbol	LTTH80	LTTH806SDW	
Maximum Repetitive Peak Reverse Voltage			VRRM	60	600	
Average Rectified Output Current See FIG.1			lF	8.0	8.0	
Forward Voltage (1)	IF=8.0A	Tj=25°C	VF	3.4		V
Reverse Leakage Current	VR=600V	Tj=25°C Tj=125°C	IR	15 200		uA
Reverse recovery time	IF= 0.5A Irr= 0.25A IR =1.0A	Tj=25°C	trr	21		ns
Thermal characteristics (GBD)			Symbol	Val	Value	
Non Repetitive Forward Surge Current tp=1 ms tp=10ms		IFSM		150 70		
Operation and Storage temperature range			TJ, TSTG	-55 to	-55 to +175	
Typical thermal resistance, Junction to Ambient (2)			R⊕JA	7.0		°C/W
Typical thermal resistance, Junction to Case (2)			R⊕JC	2.8		°C/W
Typical thermal resistance, Junction to Lead (2)			R⊕JL	3.5		°C/W
Dynamic electrical characteristics (GBD)		Symbol	Typical	Max.	Unit	
Reverse recovery time	IF=1A, dIF/dt=-200A/µs, VR=30V	Tj=25°C	trr	12	18	ns
Reverse recovery current	IF=8 A,	Tj=25°C Tj=125°C	IRM	1.8 5	2.2 6.0	А
Reverse recovery charges	dIF/dt=-200A/μs, VR=200V	Tj=25°C Tj=125°C	Q _{rr}	60 220		nC
Note ·					REV2.Oct-2019.	KTGA27

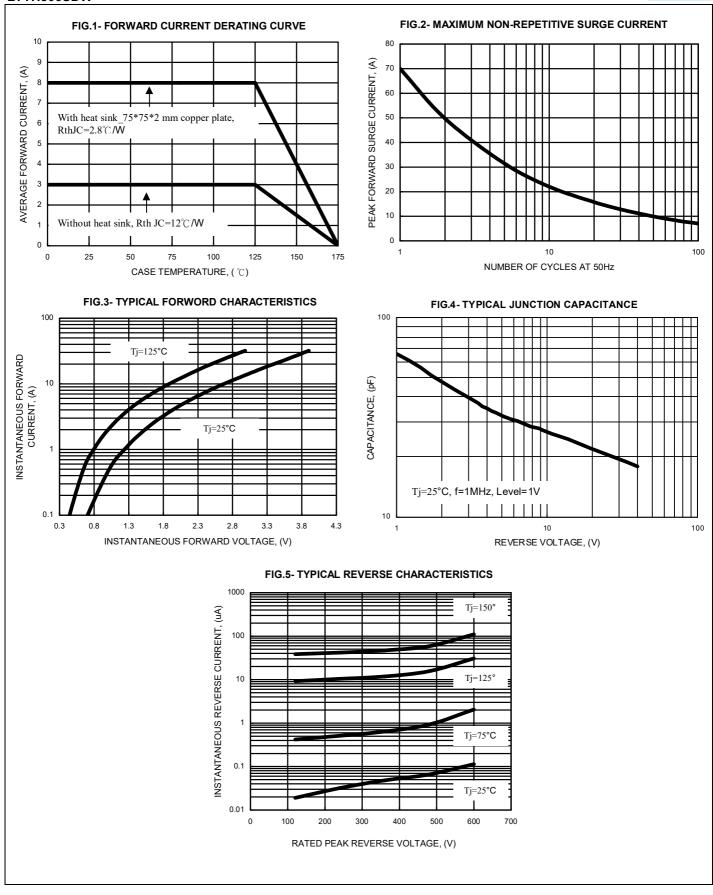
(1) 300us Pulse Width, 2% Duty Cycle.

(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.

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

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