LITEON SEMICONDUCTORS

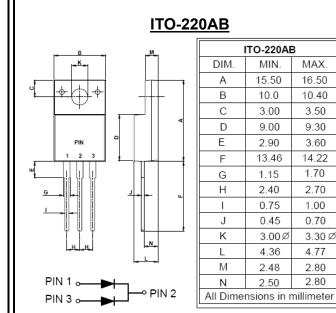
SUPER FAST **GLASS PASSIVATED RECTIFIER**

FEATURES

- Glass passivated chip •
- Superfast switching time for high efficiency •
- Low forward voltage drop and high current capability •
- Low reverse leakage current
- High surge capacity •
- Plastic package has UL flammability classification •
- 94V-0 •

MECHANICAL DATA

- Case : ITO-220AB molded plastic
- Polarity : As marked on the body •
- Weight : 0.06 ounces, 1.70 grams •
- Mounting position : Any
- Max. mounting torque = 0.5 N.m (5.1 Kgf.cm) .



REVERSE VOLTAGE – 400Volts

FORWARD CURRENT – 10 Amperes

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

CHARACTERISTICS			SYMBOL	STPF1040CT	UNIT	
Device marking code			Note	STPF1040CT		
Maximum Repetitive Peak Reverse Voltage			V _{RRM}	400	V	
Average Rectified Output Current See FIG.1			١ _F	10	А	
Peak Forward Surge Current 8.3ms single half sine-wave			I _{FSM}	55	А	
Breakdown voltage	IR=50uA	Tj=25°C	VB	400	V	
Forward Voltage (1)	IF=5A	Tj=25°C Tj=125°C	- V _F	1.3 1.2	v	
	IF=10A	Tj=25°C Tj=125°C		1.5 1.4		
Leakage Current	VR=400V	Tj=25°C Tj=100°C	I _R	10 250	uA	
Reverse recovery time	IF= 0.5A Irr= 0.25A IR =1.0A	Tj=25°C	t _{rr}	35	ns	
Junction Capacitance	VR=4V Freq.=1MHz	Tj=25°C	Cj	TYP. 30	pF	
Typical thermal resistance_Junction to Case (2)			R⊖ _{JC}	4.5	°C/W	
Operating and Storage junction temperature range			T _J ,T _{STG}	-55 to +150	°C	
lote :			1	REV. 2, Sep-2010, K	REV. 2, Sep-2010, KTGC36	

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

(2) Thermal Resistance test performed in accordance with JESD-51. R_{eJL} is measured at the PIN 2, R_{eJC} is measured at the top centre of body.

STPF1040CT

ITO-220AB

MIN.

15.50

10.0

3.00

9.00

2.90

13.46

1.15

2.40

0.75

0.45

3.00Ø

4.36

2.48

2.50

MAX.

16.50

10.40

3.50

9.30

3.60

14.22

1.70

2.70

1.00

0.70

4.77

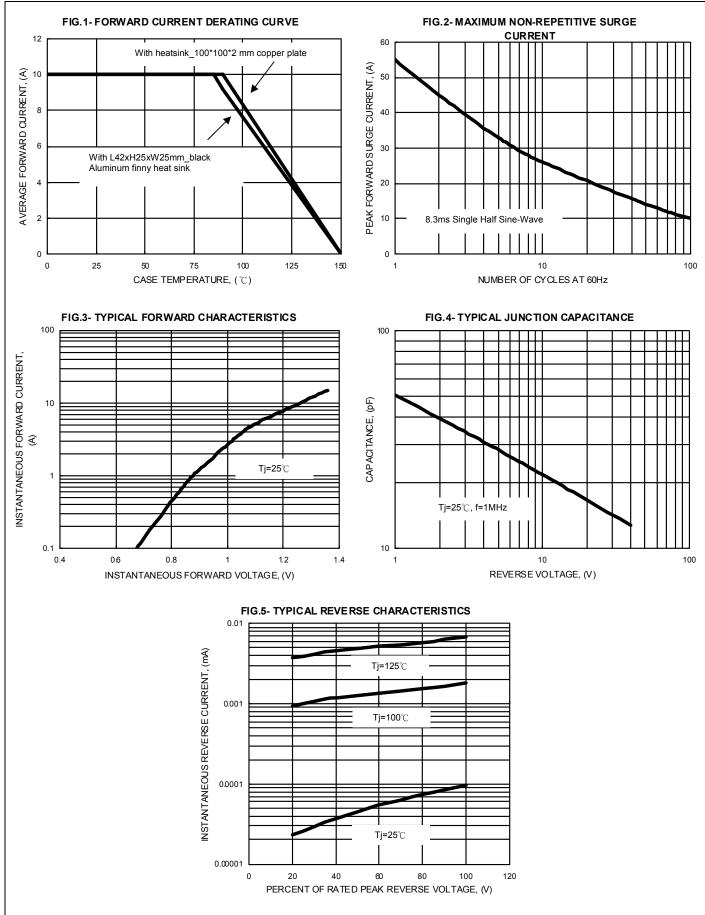
2.80

2.80

3.30 Ø

RATING AND CHARACTERISTIC CURVES STPF1040CT

LITEON





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