

G30H150CTW

TO-220AB

MIN

14.40

9.65

2.54

5.84

8.26

12.70

2.29

0.51

0.30

3.53Φ

3.56

1.14

2.03

1.14

TRENCH SCHOTTKY RECTIFIER

FEATURES

- Super Low Forward Voltage Drop
- Reliable High Temperature Operation
- · Softest, fast switching capability
- Qualified according to AEC-Q101 Rev D

APPLICATIONS

 Device optimized for ultra-low forward voltage drop to maximize efficiency in Power Supply application

MECHANICAL DATA

- Case: TO-220AB molded plastic
- Case Material: "Green" Molding compound, UL flammability classification 94V-0,"Halogen-free".
- · Lead free finish, RoHS compliant
- · Polarity indicator: As marked on the body
- Marking code: G30H150CTW
- Weight: 1.927 grams (Approximate)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER			SYMBOL	VALUE			UNIT
Maximum repetitive peak reverse voltage			V _{RRM}	150			V
Maximum DC blocking voltage			V _{DC}	150			V
Maximum Average rectified forward current @Tc = 130°C		I _{AV}	30			А	
Peak forward surge 8.3ms single half sine-wave superimposed on rated load			I _{FSM}	250			А
Operating and Storage temperature range			T _J ,T _{STG}	-55 ~ +175			°C
STATIC ELECTRICAL	CHARACTER	ISTICS					
PARAMETER	TEST	CONDITION	SYMBOL	TYP		MAX	UNIT
Forward voltage (Note 1)	I _F = 15A	T _J = 25°C T _J = 125°C	V _F	 0.71		0.88 0.74	V
Reverse leakage current	V _R = 150V	T _J = 25°C T _J = 125°C	I _R	 0.5		8 10	uA mA
DYNAMIC ELECTRICA	L CHARACT	ERISTICS					
PARAMETER			SYMBOL	ТҮР			UNIT
Typical junction capacitance (Note 2)			CJ	840			pF
THERMAL CHARACTI	ERISTICS						
PARAMETER			SYMBOL	ТҮР		UNIT	
Turical the must be sisten as (blacks 0, 4)			RthJ∟		2	0	
Typical thermal resistance (Note 3,4)		RthJ _c	2		°C/W		
lote :		R	EV1, Jan20	21,KTHC242			
(1) 300us pulse width 2% du	ty cycle					•	•

(1) 300us pulse width, 2% duty cycle

(2) Measured at 1.0MHz and applied reverse voltage of 4.0 VDC

(3) Thermal Resistance test performed in accordance with JESD-51.

(4) The unit mounted on Copper heatsink (80mm x 80mm x 1.5mm)

Please be aware that an Important Notice and Disclaimer concerning availability, disclaimers, and use in critical applications of LSC products thereto appears at the end of this Data Sheet.



- 150 Volts - 30 Amperes

MAX

15.20

10.67

3.43

6.86

9.28 4.20

14.73

2.79

1.00

0.64

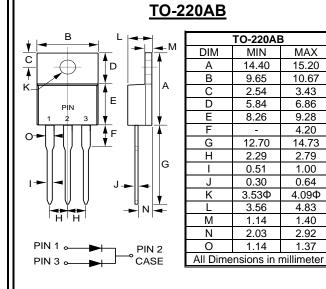
4.09Φ

4.83

1.40

2.92

1.37



RATING AND CHARACTERISTIC CURVES G30H150CTW

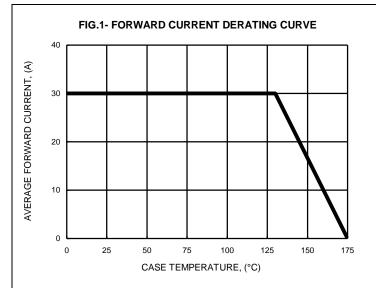


FIG.3- TYPICAL FORWARD CHARACTERISTICS

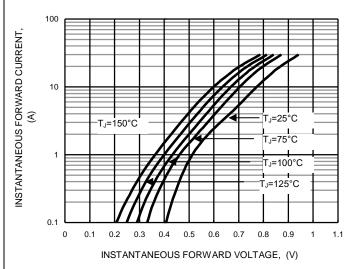
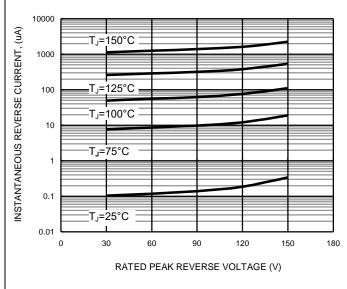
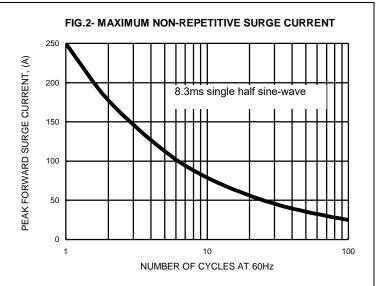


FIG.5- TYPICAL REVERSE CHARACTERISTICS







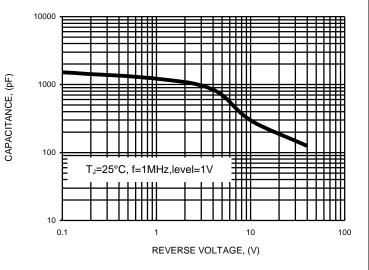
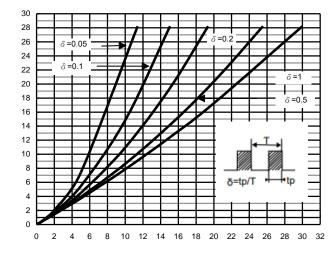


FIG.6- AVERAGE FORWARD POWER DISSIPATION VS AVERAGE FORWARD CURRENT



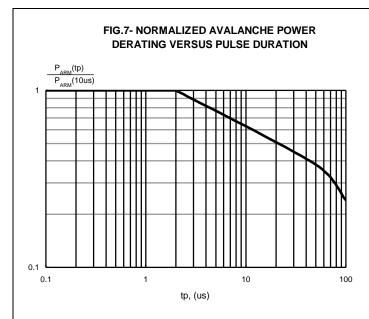
AVERAGE FORWARD CURRENT (A)



POWER DISSIPATION, (W)

RATING AND CHARACTERISTIC CURVES G30H150CTW

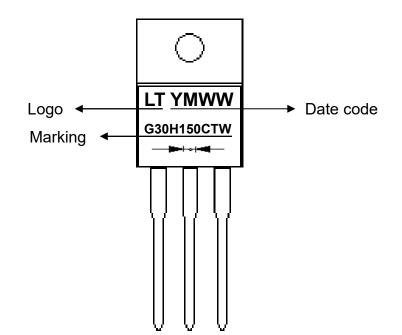




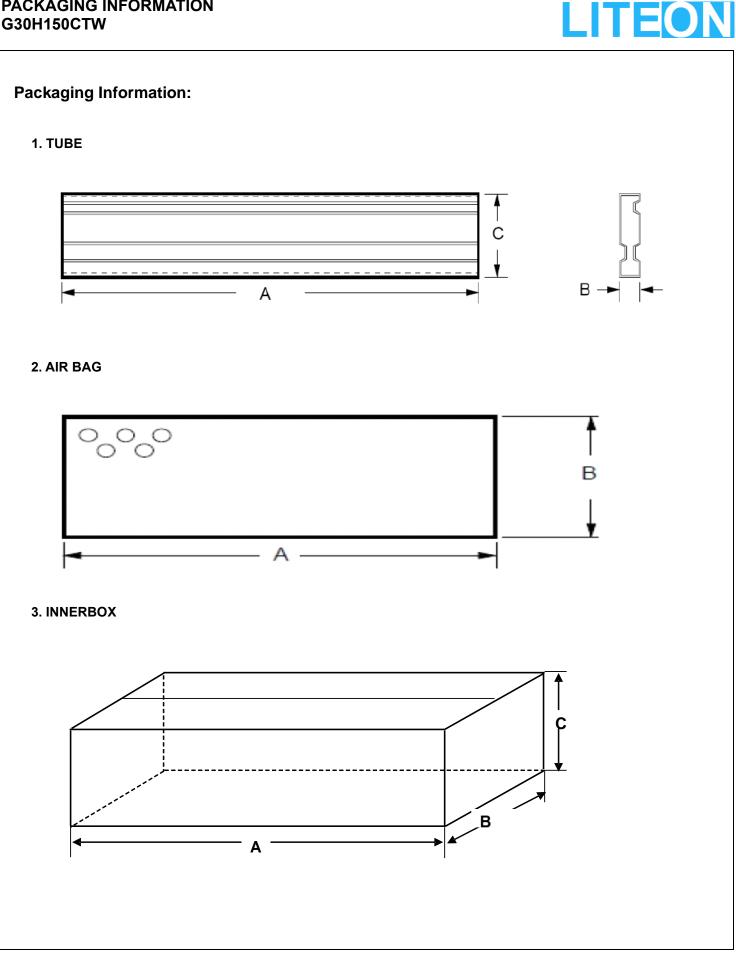
MARKING INFORMATION G30H150CTW







PACKAGING INFORMATION G30H150CTW

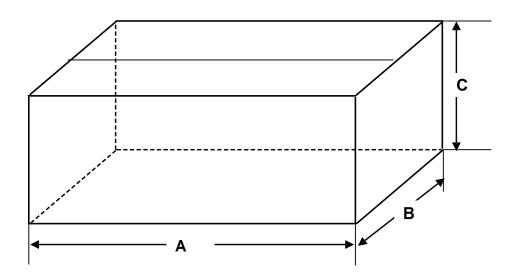


PACKAGING INFORMATION G30H150CTW

LITEON

Packaging Information:

4. CARTON



Unit:mm

P/N	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	Q'ty/per	REMARK
TUBE	536	5.6	31.8	50	/
AIR BAG	800	550	/	1	/
INNERBOX	555	165	105	2000	40TUBE
CARTON	575	179	225	4K	2 INNER BOX



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