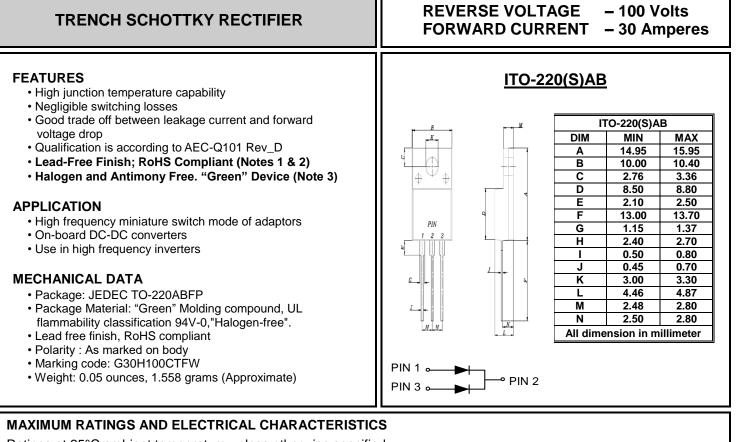




A Product Line of Diodes Incorporated

LITE-ON SEMICONDUCTOR

G30H100CTFW



Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER			SYMBOL	VALUE		UNIT
Maximum repetitive peak reverse voltage			V _{RRM}	100		V
Maximum DC blocking voltage			V _{DC}	100		V
Maximum Average rectified forward current @		@Tc = 70°C	I _{AV}	30		
Non repetitive peak reverse current @ tr		@ tp=2us	I _{RSM}	3		A
Peak forward surge 8.3ms single half sine-wave superimposed on rated load			I _{FSM}	280		A
Operating Junction 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 4)	I _F = 15A	T _J = 25°C T _J = 125°C	V _F	 0.65	0.79	V
Reverse leakage current	V _R = 100V	$T_J = 25^{\circ}C$ $T_J = 125^{\circ}C$	I _R	 0.83	5 5	uA mA
Typical junction capacitance (Note 5)		CJ	1060		pF	
THERMAL CHARACT	ERISTICS		·			
PARAMETER			SYMBOL	ТҮР		UNIT
Typical thermal resistance (Note 6,7)		RthJ∟ RthJ _C	3 5		°C/W	

Note:

1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.

3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

4. 300us pulse width, 2% duty cycle.

5. Measured at 1.0MHz and applied voltage of 4.0V DC.

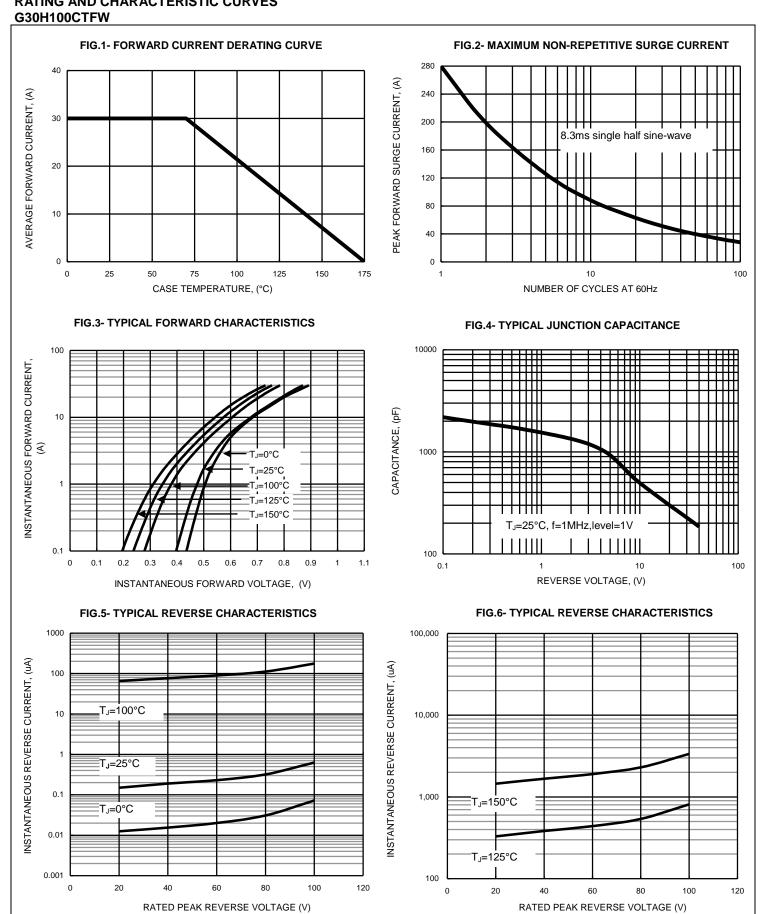
6. Thermal resistance test performed in accordance with JESD-51.

7. The unit mounted on Copper heatsink 200mm x 200mm x 5mm & Aluminum plate 29.5mm x 35.8mm x 1.6mm.

RATING AND CHARACTERISTIC CURVES

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LITE-ON SEMICONDUCTOR



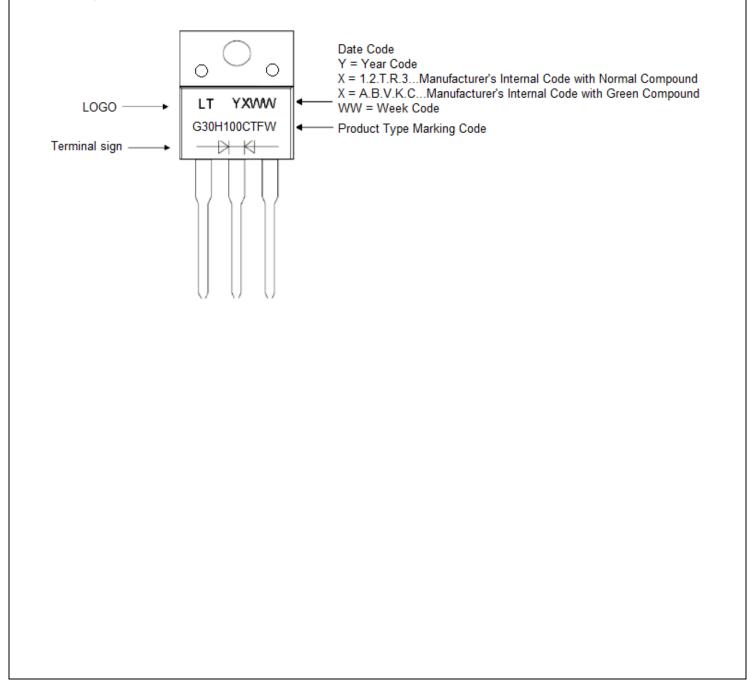
G30H100CTFW Document number: DS44943 Rev. 3 - 2



Ordering Information:

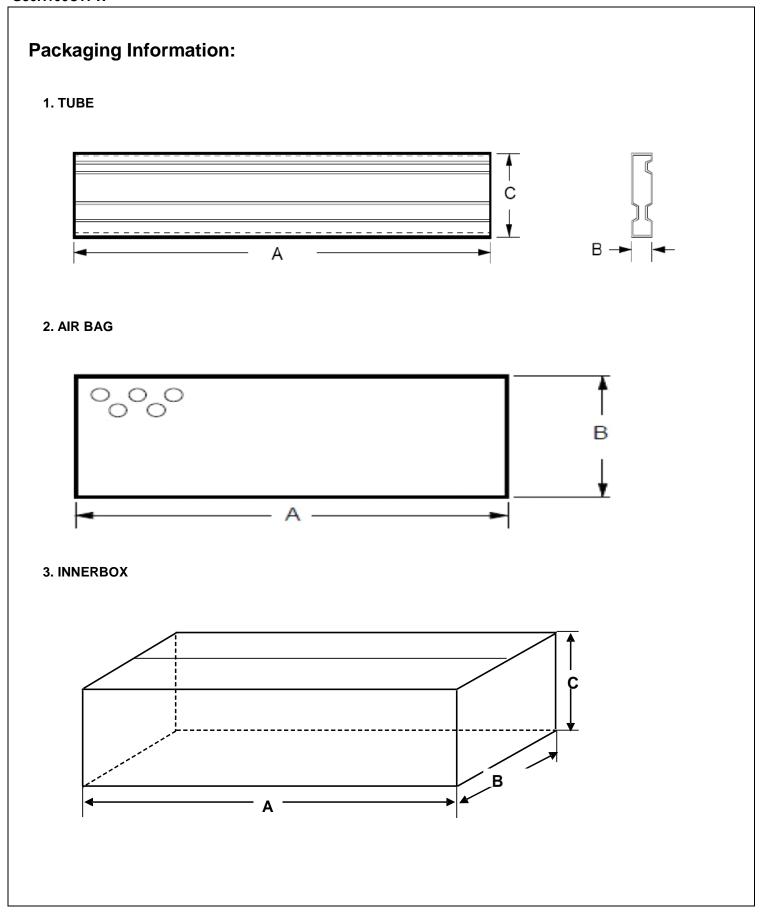
Part Number	Package	Packing		
i art ivaniser	T dekage	Qty.	Carrier	
G30H100CTFW	ITO-220(S)AB	50pcs	Tube	

Marking information:





LITE-ON SEMICONDUCTOR

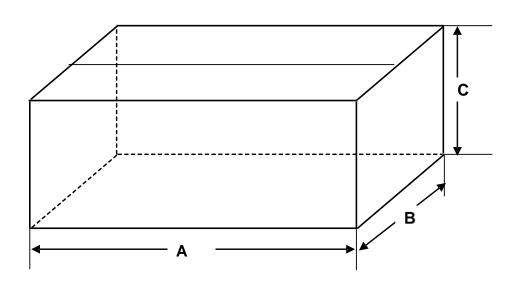




LITE-ON SEMICONDUCTOR

Packaging Information (continued):

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	1	1
INNERBOX	555	165	105	2000	40TUBE
CARTON	575	179	225	4K	2 INNER BOX





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