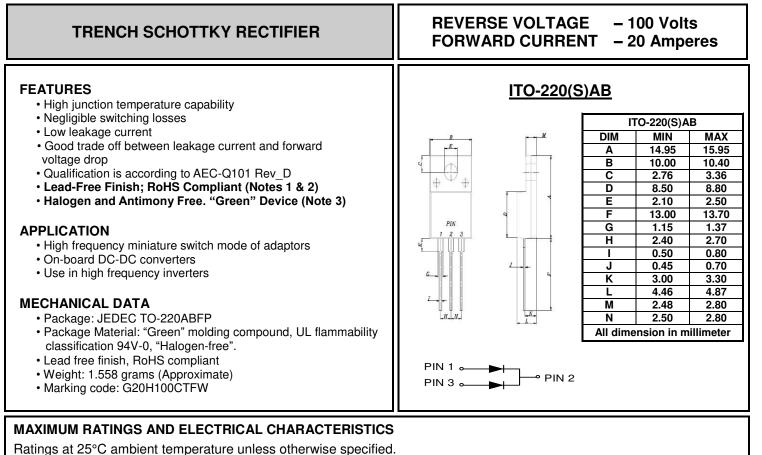




A Product Line of Diodes Incorporated

G20H100CTFW



ABSOLUTE RATINGS

PAR	PARAMETER			VALUE		UNIT
Maximum repetitive peak revers	e voltage		V _{RRM}	100		V
Maximum DC blocking voltage			V _{DC}	100		V
Maximum Average rectified outp	out current	@T _c =110°C	I _(AV)	20		А
Peak forward surge current 8.3ms single half sine-war superimposed on rated load.		wave	I _{FSM}	280		А
Non repetitive peak reverse curr	ent	@tp=2uS	I _{RSM}	3		A
Operating junction and Storage	Temperature range)	T _{J,} T _{STG}	-55 ~ +175		°C
STATIC ELECTRICAL C	HARACTERIS	TICS				
PARAMETER	TEST	CONDITIONS	SYMBOL	TYP MAX		UNIT
Forward voltage (Note 4)	I _F =10A	T _J =25°C T _J =125°C	V _F	 0.61	0.77 0.64	V
Leakage current	V _R =100V	T _J =25°C T _J =125°C	I _R	 0.38	4 5	uA mA
Typical junction capacitance (No	ote 5)		CJ	685		pF
THERMAL CHARACTER	ISTICS		· ·			
PAR	AMETER		SYMBOL	ТҮР		UNIT

PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note 6.7)	RthJ _c	5	°C/W
Typical thermal resistance (Note 0,7)	RthJ∟	4	0/11

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. 300µs pulse width, 2% duty cycle.

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

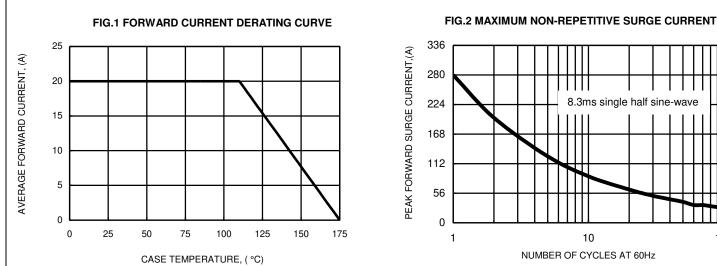
6. Thermal resistance test performed in accordance with JESD-51.

7. The unit mounted on Aluminum fin type heatsink (42mm x 25mm x 25.1mm).

RATING AND CHARACTERISTIC CURVES G20H100CTFW

A Product Line of **Diodes Incorporated**

LITE-ON SEMICONDUCTOR



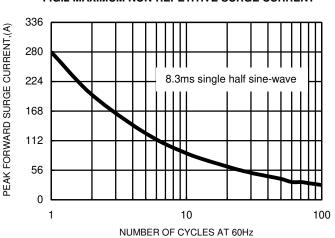
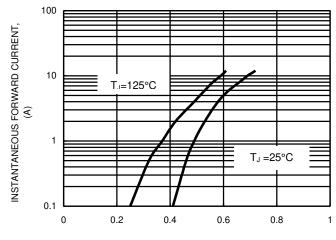


FIG.3 TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, (V)

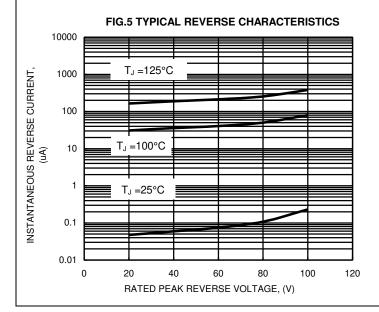
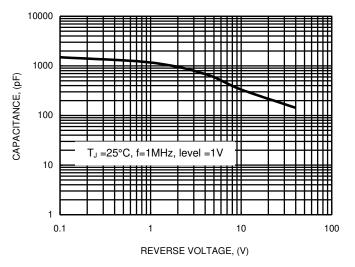


FIG.4 TYPICAL JUNCTION CAPACITANCE

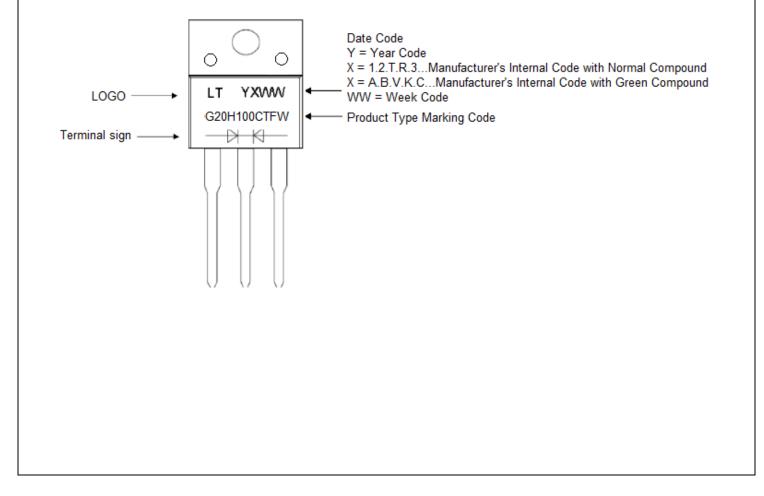




Ordering Information :

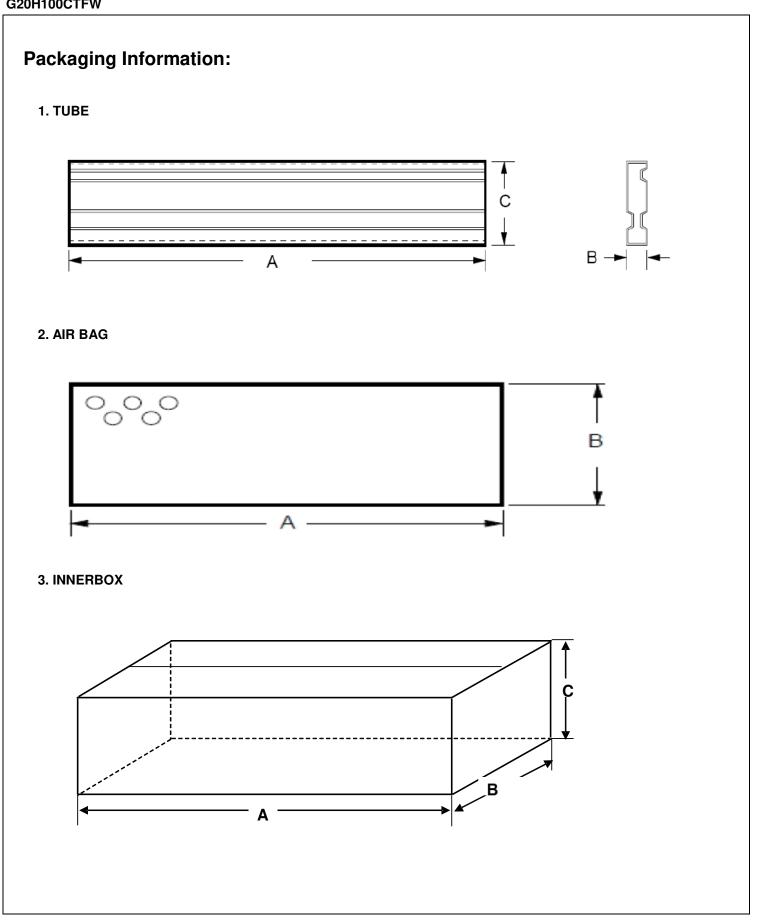
Part Number	Package	Packing		
Fait Number	rackaye	Qty.	Carrier	
G20H100CTFW	ITO-220(S)AB	50pcs	Tube	

Marking Information:





LITE-ON SEMICONDUCTOR

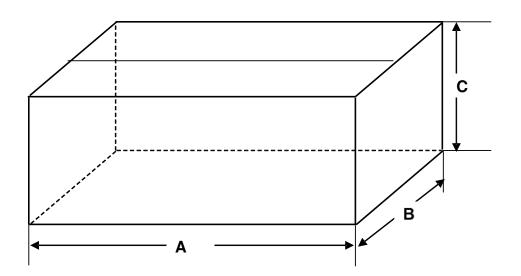






Packaging Information (continued):

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





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