G20E100CTFW

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 100 Volts FORWARD CURRENT - 20 Amperes

FEATURES

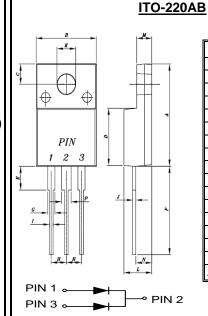
- · High efficiency
- Reduced high temperature reverse leakage
- · Reduced ultra-low forward voltage drop
- Qualification is according to AEC-Q101 Rev_C
- · Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

APPLICATION

- DC to DC converter
- AC to DC adaptors

MECHANICAL DATA

- Package: JEDEC ITO-220AB
- Package Material: "Green" molding compound, UL flammability classification 94V-0, "Halogen-free".
- Weight: 1.558 grams (Approximate)Marking Code: G20E100CTFW



ITO-220AB			
DIM	MIN	MAX	
Α	14.95	15.95	
В	10.00	10.40	
С	2.76	3.36	
D	8.50	8.80	
E	3.30	3.90	
F	13.00	13.70	
G	1.15	1.70	
Н	2.40	2.70	
ı	0.50	0.80	
J	0.45	0.70	
K	3.00	3.30	
L	4.46	4.87	
М	2.48	2.80	
N	2.50	2.80	
р	1.50	1.90	
All dimension in millimeter			

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}	100	V
Maximum DC blocking voltage		V_{DC}	100	V
Maximum average rectified output current	@T _C =95°C	I _(AV)	20	А
Peak forward surge current 8.3 ms single half sine-wave superimposed on rated load.		I _{FSM}	250	А
Non repetitive peak reverse current	t _P =2us	I _{RSM}	3	Α
Operating junction and storage temperature range		T _{J,} T _{STG}	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	TYP	MAX	UNIT
Forward voltage (Note 4)	I _F =10A	T _J =25°C T _J =125°C	V _F	 	0.72 0.64	V
Leakage current	V _R =100V	T _J =25°C T _J =125°C	I _R	 	30 12	uA mA
Typical junction capacitance (Note 5)		CJ	440		pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP	UNIT		
Typical thermal resistance (Notes 6, 7)	RthJ _C	4	°C/W		
Typical thermal resistance (Notes 6, 1)	Rth.Jı	6	O, VV		

Notes:

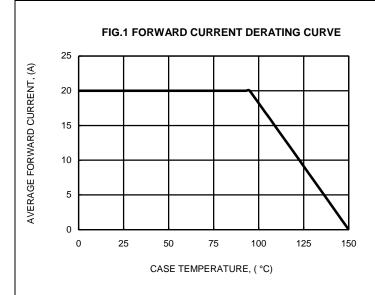
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. 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 4.0VDC.
- 6. Thermal resistance test performed in accordance with JESD-51.
- 7. The unit mounted on Fin-type heatsink (75mm x 75mm x 5mm).

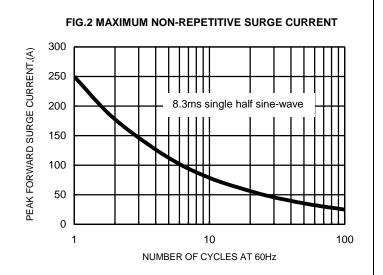
10000

0.1

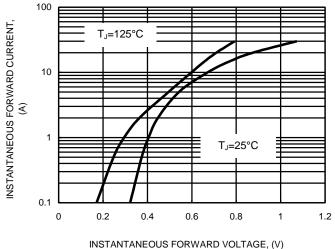


RATING AND CHARACTERISTIC CURVES **G20E100CTFW**









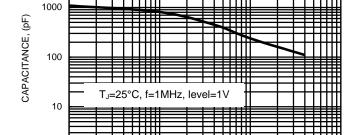
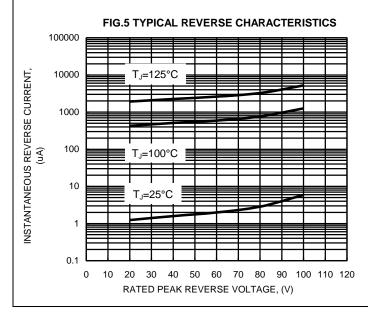


FIG.4 TYPICAL JUNCTION CAPACITANCE

10

100



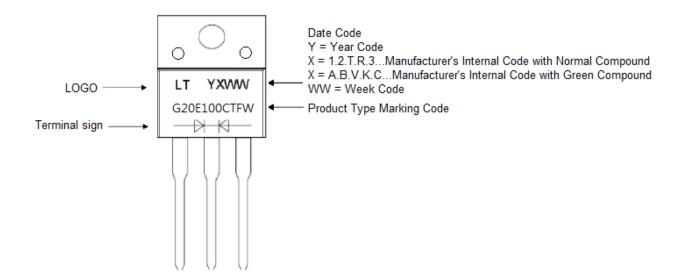
REVERSE VOLTAGE, (V)



Ordering Information:

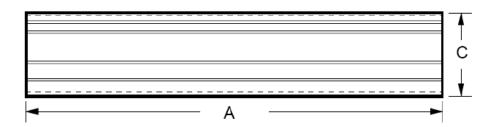
Part Number	Packago	Packing		
rait Nullibei	Package	Qty.	Carrier	
G20E100CTFW	ITO-220AB	50 pcs	Tube	

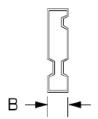
Marking Information:



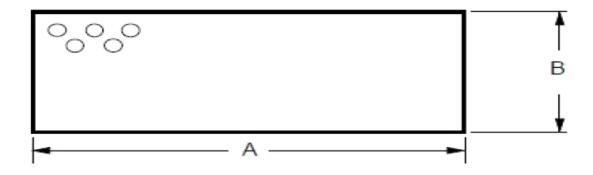
Packaging Information:

1. TUBE

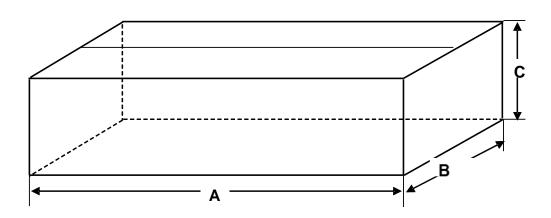




2. AIR BAG

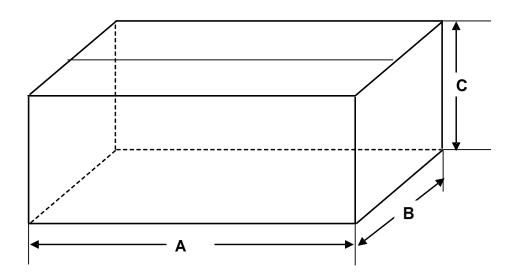


3. INNERBOX



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	1
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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