

G20C100CTW

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)

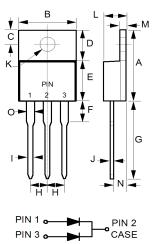
APPLICATION

- DC to DC converter
- AC to DC adaptors

MECHANICAL DATA

- Package: JEDEC TO-220AB
- Package Material: "Green" molding compound, UL flammability classification 94V-0, "Halogen-free"
- Weight: 1.927 grams (Approximate)
- Marking Code: G20C100CTW

TO-220AB



TO-220AB				
DIM	MIN	MAX		
Α	14.40	15.20		
В	9.65	10.67		
С	2.54	3.43		
D	5.84	6.86		
E	8.26	9.28		
F		4.20		
G	12.70	14.73		
Н	2.29	2.79		
	0.51	1.00		
J	0.30	0.64		
K	3.53Ф	4.09Ф		
L	3.56	4.83		
М	1.14	1.40		
N	2.03	2.92		
0	1.14	1.37		
All Dimensions 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 =120°C	I _(AV)	20	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	150	Α
Non-repetitive peak reverse current	@tp=2us	I _{RSM}	3	Α
Operating junction and storage temperature range		T _{J,} T _{STG}	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST C	TEST CONDITIONS		TYP	MAX	UNIT
Forward voltage (Note 4)	I _E =10A	T _J =25°C	W		0.80	\/
Forward voitage (Note 4)	I _F =10A	T _J =125°C	VF		0.75	V
Lackage engrant	\/ 100\/	T _J =25°C			100	uA
Leakage current	V _R =100V	V _R =100V T _I =125°C	IR	4.5	15	mA

THERMAL CHARACTERISTICS

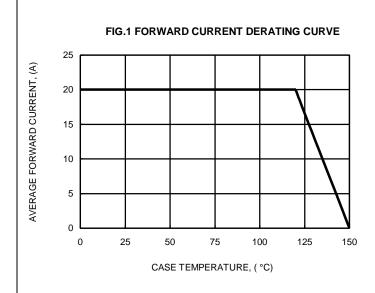
PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Notes 5, 6)	RthJ _C	2	°C/W
Typical thermal resistance (Notes 5, 0)	RthJ∟	2	C/VV

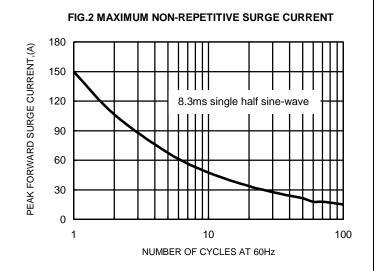
Notes:

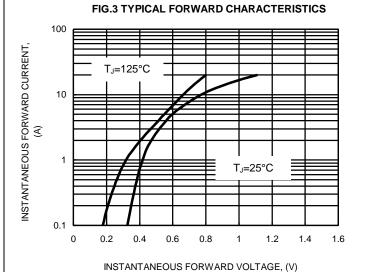
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. 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. The unit mounted on copper heatsink (81.8mm x 80mm x 1.5mm).
- 6. Thermal resistance test performed in accordance with JESD-51.

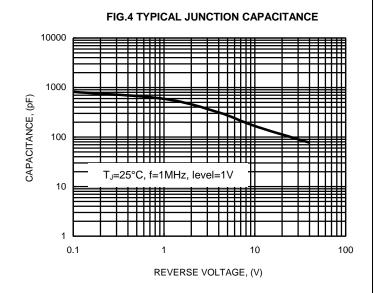


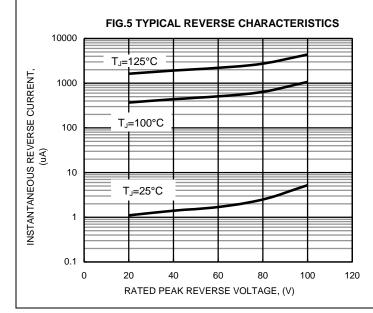
RATING AND CHARACTERISTIC CURVES G20C100CTW









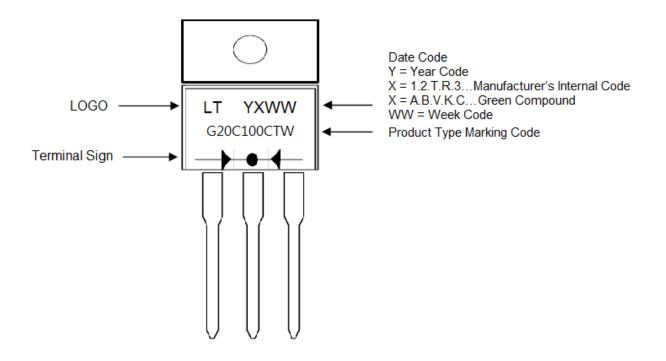




Ordering Information:

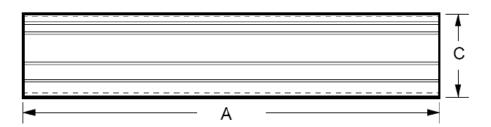
Part Number	Packago	Packing		
Fait Number	Package	Qty.	Carrier	
G20C100CTW	TO-220AB	50 pcs	Tube	

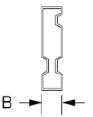
Marking Information:



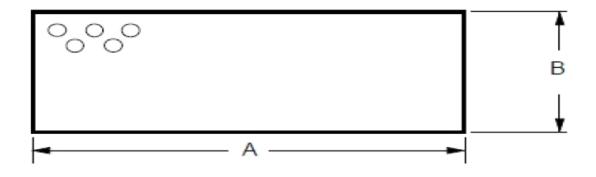
Packaging Information:

1. TUBE

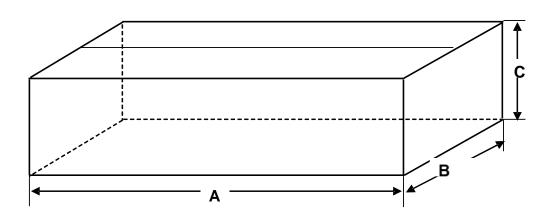




2. AIR BAG

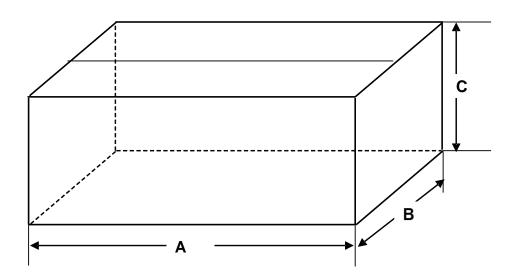


3. INNERBOX



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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