

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

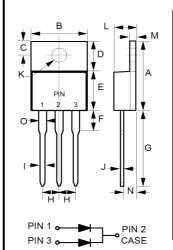
APPLICATION

- · DC to DC converter
- · AC to DC Adaptors

MECHANICAL DATA

- Case: JEDEC TO-220AB
- · Case Material: "Green" molding compound, UL flammability classification 94V-0,(No Br. Sb. Cl.) "Halogen-free".
- · Lead free finish, RoHS compliant
- 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			
I	0.51	1.00			
J	0.30	0.64			
K	3.53Ф	4.09Ф			
L	3.56	4.83			
M	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
Operating junction and Storage Temperature range		T _J , T _{STG}	-55 ~ +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	TYP	MAX	UNIT
Forward voltage (Note1)	I _F =10A	T _J =25°C T _J =125°C	V _F	 	0.80 0.75	V
Leakage current	V _R =100V	T _J =25°C T _J =125°C	I _R	 4.5	100 15	uA mA

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР		UNIT
Typical thermal registence (Note 2.2)	RthJc	2		°C/W
Typical thermal resistance (Note 2,3)	RthJ∟	2		C/VV
Note:			REV0 , Aug -2017, ł	KTHC159

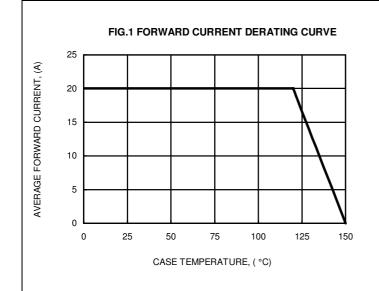
300us pulse width, 2% duty cycle.

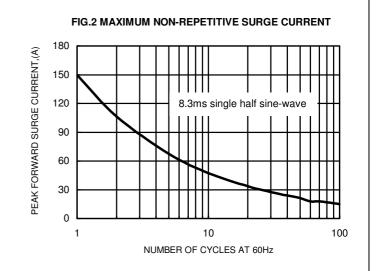
The unit mounted on copper heatsink (81.8mm x 80mm x 1.5mm)

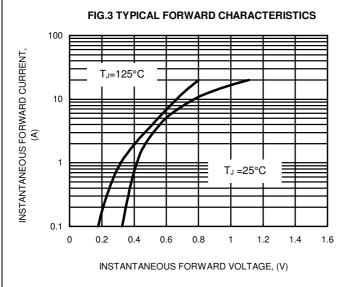
Thermal resistance test performed in accordance with JESD-51.

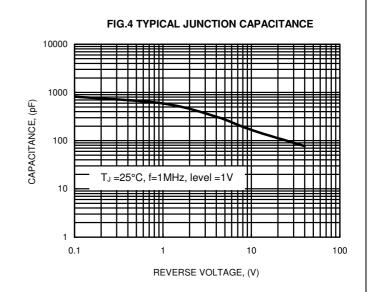
RATING AND CHARACTERISTIC CURVES G20C100CTW

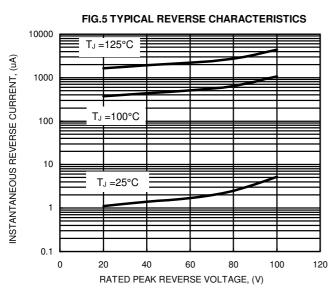














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