

G20H100CTW

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 100 Volts FORWARD CURRENT - 20 Amperes

FEATURES

- High junction temperature capability
- Negligible switching losses
- · Low leakage current
- Good trade off between leakage current and forward voltage drop
- Qualification is according to AEC-Q101 Rev D

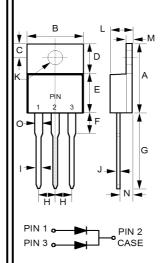
APPLICATION

- High frequency miniature switch mode of adaptors
- On-board DC-DC converters
- · Use in high frequency inverters

MECHANICAL DATA

- Case: JEDEC TO-220AB
- Case Material: "Green" molding compound, UL flammability classification 94V-0, "Halogen-free".
- · Lead free finish, RoHS compliant
- Weight: 1.927 grams (Approximate)
- Marking code: G20H100CTW

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	.79			
I	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	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	280	Α
Non repetitive peak reverse current	@tp=2uS	I _{RSM}	3	Α
Operating junction and Storage Temperature range		T _J , T _{STG}	-55 ~ + 175	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	TYP	MAX	UNIT
Forward voltage (Note1)	I _F =10A	TJ=25°C TJ=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	 0.39	4 5	uA mA
Typical junction capacitance (Note 2)		CJ	685		pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP		UNIT
Typical thermal resistance (Note 3,4)	RthJc	4		°C/W
Typical thermal resistance (Note 3,4)	RthJ∟	9		C/VV
Note:			REV1 , Sep - 2019,	KTHC155

Note: (1) 300us pulse width, 2% duty cycle.

(2) Measured at 1.0MHz and applied voltage of 4.0V DC.

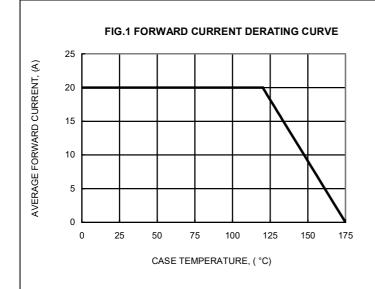
(3) Thermal resistance test performed in accordance with JESD-51.

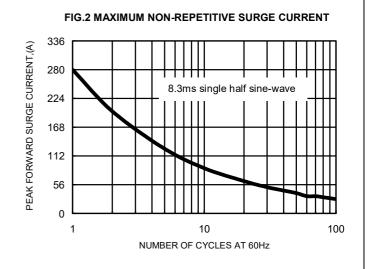
(4) The unit mounted on Aluminum fin type heatsink(42mm x 25mm x 25.1mm)

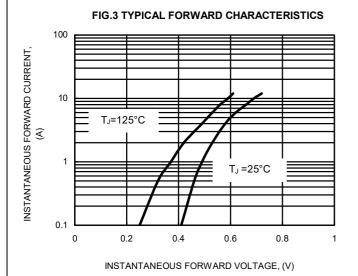
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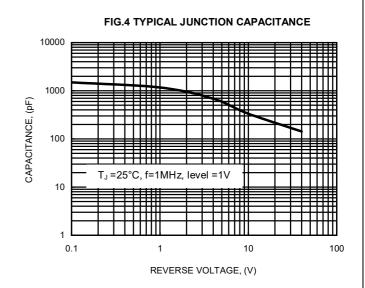
RATING AND CHARACTERISTIC CURVES G20H100CTW

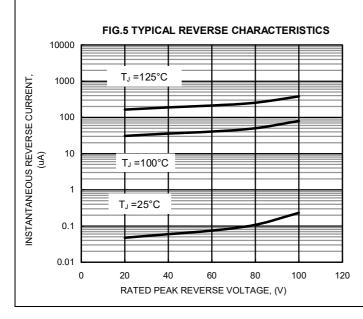








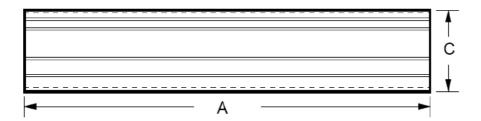


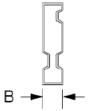




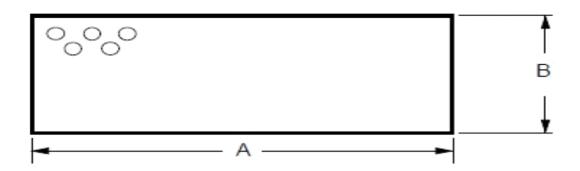
Packaging Information:

1. TUBE

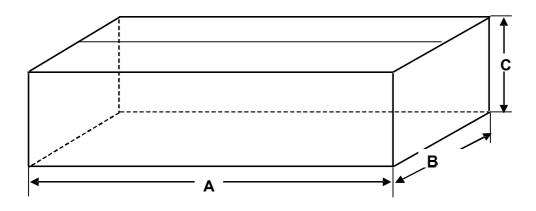




2. AIR BAG



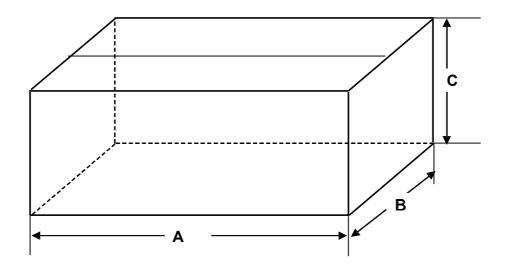
3. INNERBOX





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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