

G20H100CTFW

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

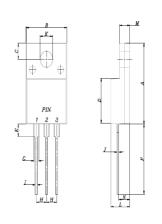
APPLICATION

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

MECHANICAL DATA

- Case: JEDEC TO-220ABFP
- · Case Material: "Green" molding compound, UL flammability classification 94V-0, "Halogen-free".
- · Lead free finish, RoHS compliant
- Weight: 1.558 grams (Approximate)

ITO-220(S)AB



ITO-220(S)AB					
DIM	MIN	MAX			
Α	14.95	15.95			
В	10.00	10.40			
С	2.76	3.36			
D	8.50	8.80			
Е	2.10	2.50			
F	13.00	13.70			
G	1.15	1.37			
Н	2.40	2.70			
	0.50	0.80			
J	0.45	0.70			
K	3.00	3.30			
L	4.46	4.87			
M	2.48	2.80			
N	2.50	2.80			
All dimension in millimeter					



Marking code: G20H100CTFW

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 =110°C	I _(AV)	20	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		IFSM	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	ТҮР	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	TJ=25°C TJ=125°C	I _R	 0.38	4 5	uA mA
Typical junction capacitance (Note 2)		CJ	685		pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР		UNIT
Typical thermal resistance (Note 3,4)	RthJc	5		°C/W
Typical thermal resistance (Note 3,4)	RthJ∟	4		C/VV
Note:			REV2 ,Sep - 2019, ł	KTHC154

300us pulse width, 2% duty cycle.

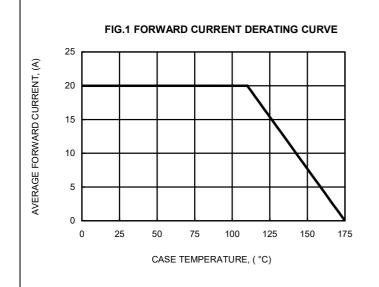
- Measured at 1.0MHz and applied voltage of 4.0V DC.
- Thermal resistance test performed in accordance with JESD-51.
- The unit mounted on Aluminum fin type heatsink(42mm x 25mm x 25.1mm).

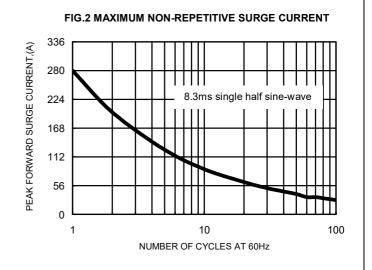
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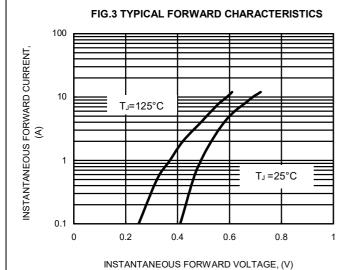
Note:

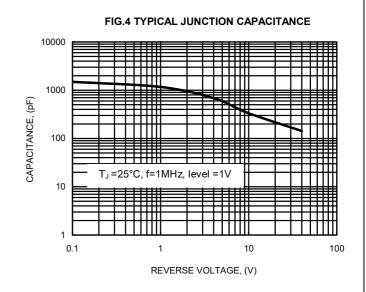
RATING AND CHARACTERISTIC CURVES G20H100CTFW

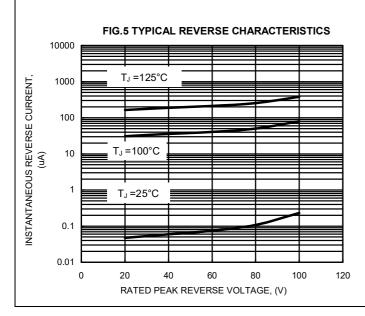








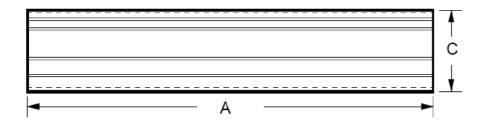


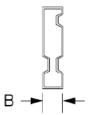




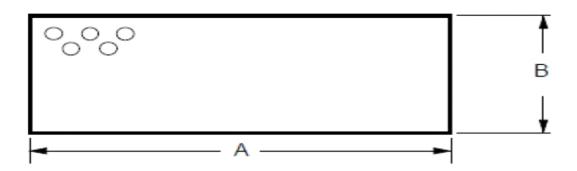
Packaging Information:

1. TUBE

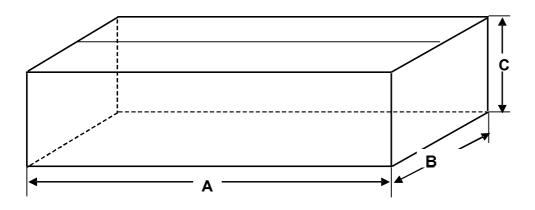




2. AIR BAG



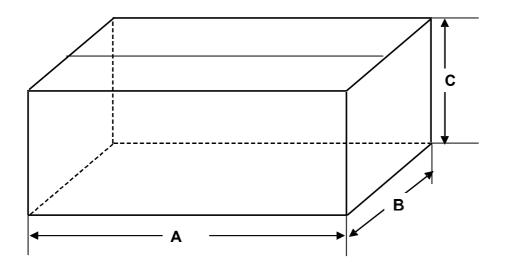
3. INNERBOX





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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