

**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

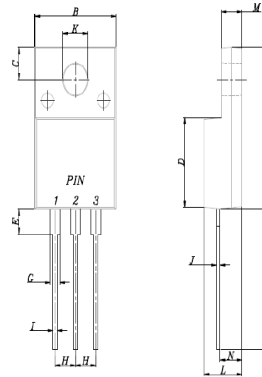
**APPLICATION**

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

**MECHANICAL DATA**

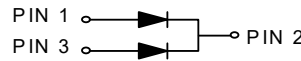
- Case: JEDEC TO-220ABFP
- Case Material: “Green” molding compound, UL flammability classification 94V-0, “Halogen-free”.
- Lead free finish, RoHS compliant
- Weight: 1.558 grams (Approximate)
- Marking code: G20H100CTFW

**ITO-220(S)AB**



ITO-220(S)AB		
DIM	MIN	MAX
A	14.95	15.95
B	10.00	10.40
C	2.76	3.36
D	8.50	8.80
E	2.10	2.50
F	13.00	13.70
G	1.15	1.37
H	2.40	2.70
I	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



**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	@ $T_c=110^\circ C$ $I_{(AV)}$	20	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.	$I_{FSM}$	280	A
Non repetitive peak reverse current	@ $t_p=2\mu S$ $I_{RSM}$	3	A
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)	$I_F=10A$	$T_J=25^\circ C$ $T_J=125^\circ C$	$V_F$	-- 0.61	0.77 0.64	V
Leakage current	$V_R=100V$	$T_J=25^\circ C$ $T_J=125^\circ C$	$I_R$	-- 0.38	4 5	$\mu A$ mA
Typical junction capacitance (Note 2)			$C_J$	685		pF

**THERMAL CHARACTERISTICS**

PARAMETER	SYMBOL	TYP	UNIT
Typical thermal resistance (Note 3,4)	$R_{thJc}$	5	°C/W
	$R_{thJl}$	4	

**Note :**

REV.-2 ,Sep - 2019, KTHC154

- (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 G20H100CTFW



FIG.1 FORWARD CURRENT DERATING CURVE

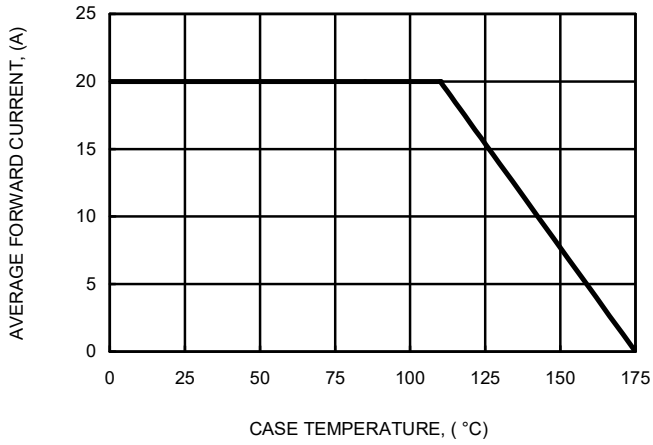


FIG.2 MAXIMUM NON-REPETITIVE SURGE CURRENT

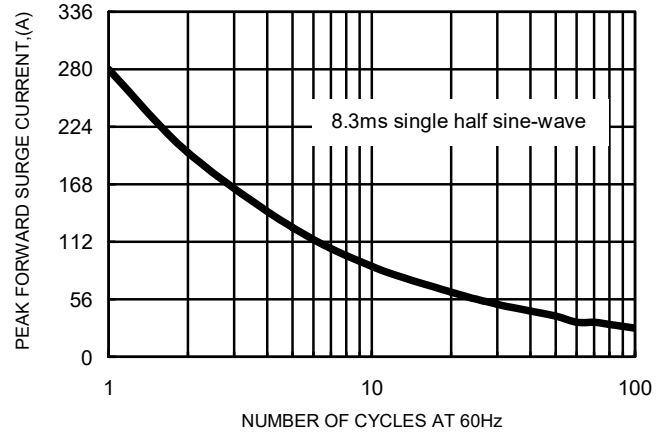


FIG.3 TYPICAL FORWARD CHARACTERISTICS

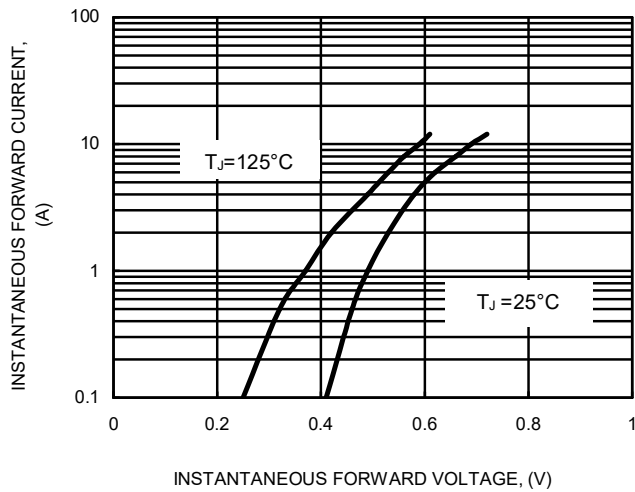


FIG.4 TYPICAL JUNCTION CAPACITANCE

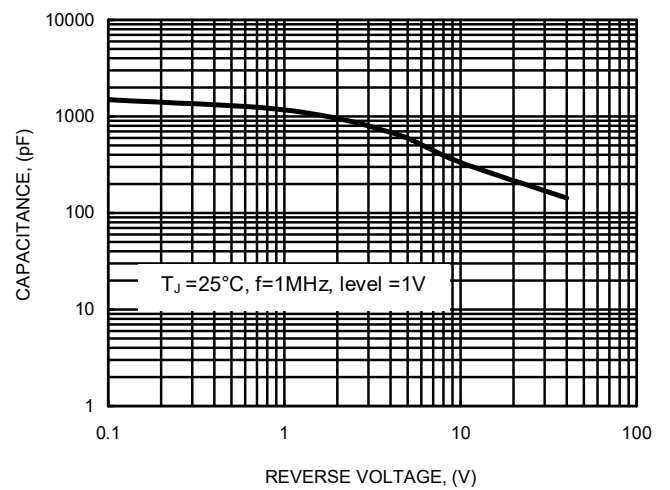
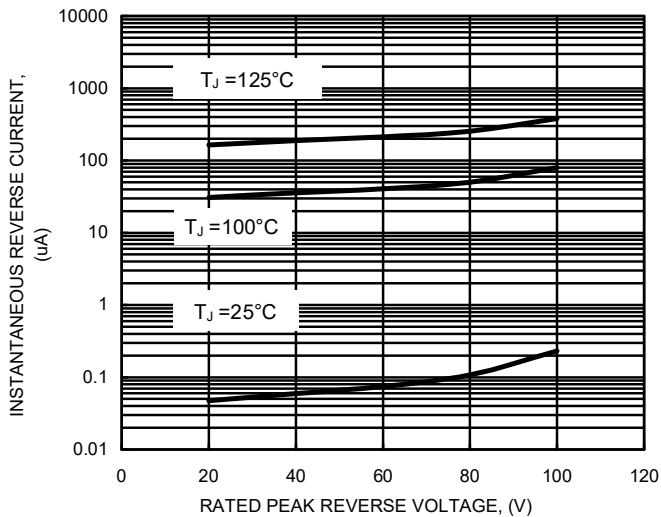
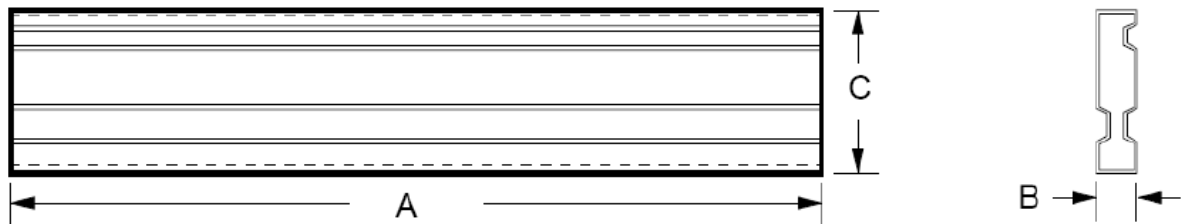


FIG.5 TYPICAL REVERSE CHARACTERISTICS

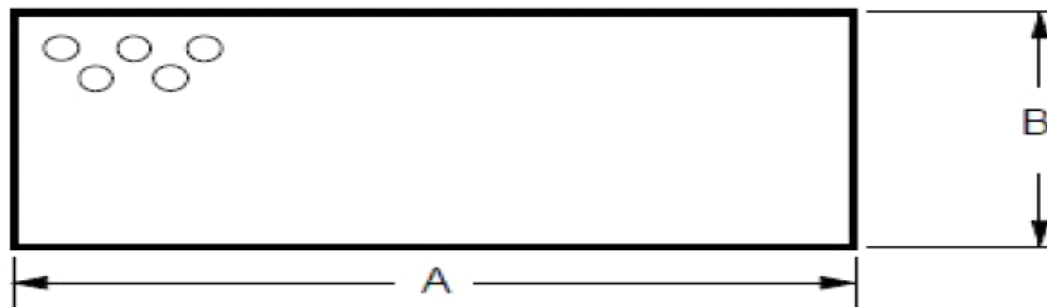


Packaging Information:

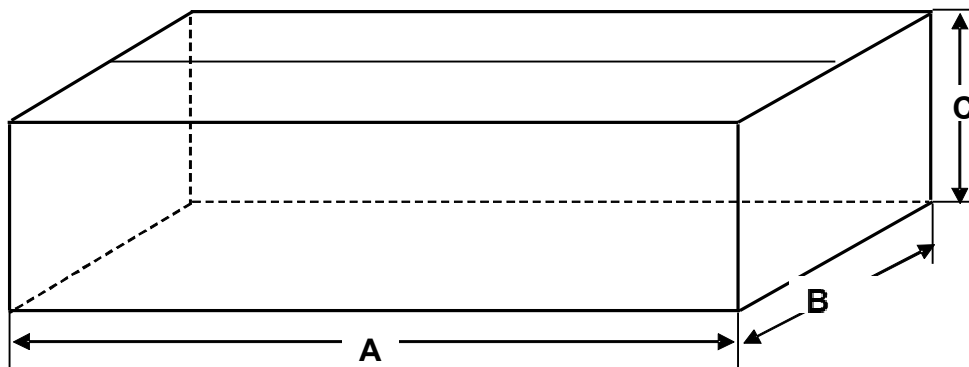
1. TUBE



2. AIR BAG

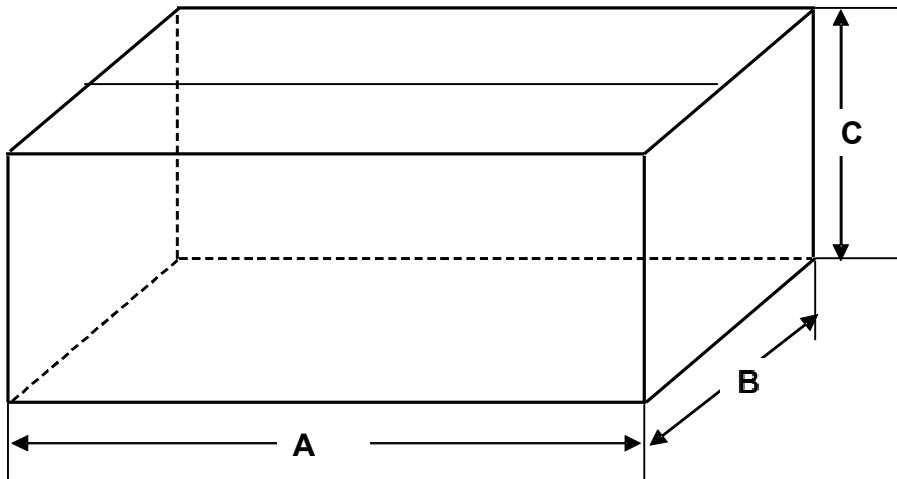


3. INNERBOX



**Packaging Information:**

**4. CARTON**



**Unit:mm**

<b>P/N</b>	<b>DIMENSION "A"</b>	<b>DIMENSION "B"</b>	<b>DIMENSION "C"</b>	<b>Q'ty/per</b>	<b>REMARK</b>
<b>TUBE</b>	<b>536</b>	<b>5.6</b>	<b>31.8</b>	<b>50</b>	<b>/</b>
<b>AIR BAG</b>	<b>800</b>	<b>550</b>	<b>/</b>	<b>/</b>	<b>/</b>
<b>INNERBOX</b>	<b>555</b>	<b>165</b>	<b>105</b>	<b>2000</b>	<b>40TUBE</b>
<b>CARTON</b>	<b>575</b>	<b>179</b>	<b>225</b>	<b>4K</b>	<b>2 INNER BOX</b>

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