

G30H120CTW

REVERSE VOLTAGE

- 120 Volts

FORWARD CURRENT - 30 Amperes

TO-220AB

FEATURES

- High junction temperature capability
- · Negligible switching losses
- · Good trade off between leakage current and forward voltage drop

TRENCH SCHOTTKY RECTIFIER

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
- · Polarity: As marked on the body
- Weight: 0.07 ounces, 1.927grams(Approximate)
- Marking code: G30H120CTW

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TO-220AB					
DIM	MIN	MAX			
Α	14.40	15.20			
В	9.65	10.67			
C	2.54	3.43			
D	5.84	6.86			
Е	8.26	9.28			
F	-	4.20			
G	12.70	14.73			
Ι	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					

REV.-1, Nov-2019, KTHC211

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATING

PARAMETER		SYMBOL	VALUE	UNIT	
Maximum repetitive peak reverse voltage		V_{RRM}	120	٧	
Maximum DC blocking voltage		V _{DC}	120	V	
Maximum Average rectified forward current	@Tc = 110°C	I(_{AV)}	30	۸	
Non repetitive peak reverse current	@tp=2us	I _{RSM}	3	А	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	280	Α	
Operating Junction and Storage temperature range		T _J , T _{STG}	-55 ~ +175	°C	

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST C	TEST CONDITION		TYP	MAX	UNIT
Forward voltage (Note1)	I _F = 15A	T _J = 25°C T _J = 125°C	V _F	 0.66	0.84 	V
Reverse leakage current	V _R = 120V	T _J = 25°C T _J = 125°C	I _R	0.7	5 5	uA mA
Typical junction capacitance (Note 2)		Сл	980		рF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT	
Typical thermal resistance (Note 3,4)	RthJc RthJ∟	3 1	°C/W	

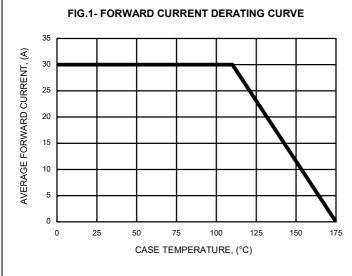
Note:

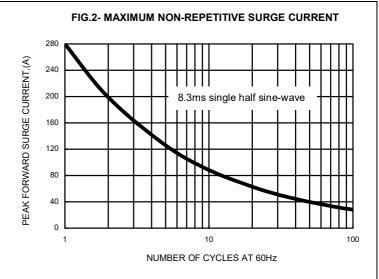
- 300us pulse width, 2% duty cycle.
- Measured at 1.0MHz and applied reverse voltage of 4.0V DC
- Thermal resistance test performed in accordance with JESD-51.
- The unit mounted on fin-type heatsink 45mm x 30mm x 23.8mm.

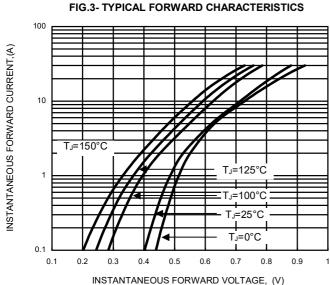
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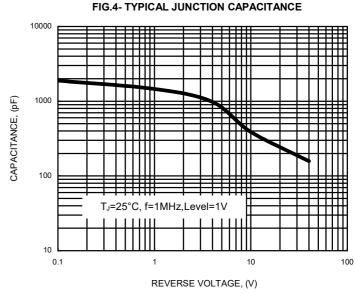
RATING AND CHARACTERISTIC CURVES G30H120CTW

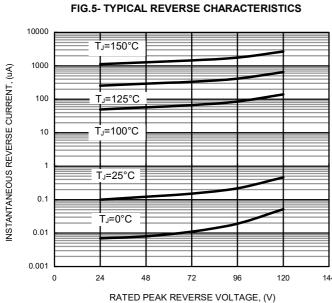








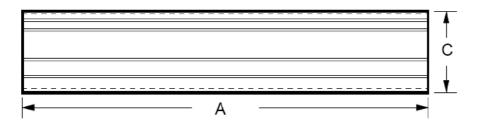


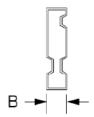




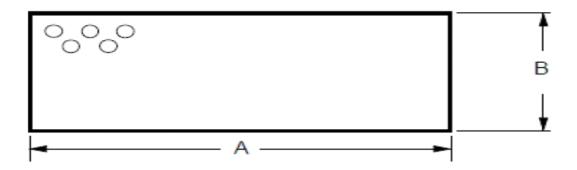
Packaging Information:

1. TUBE

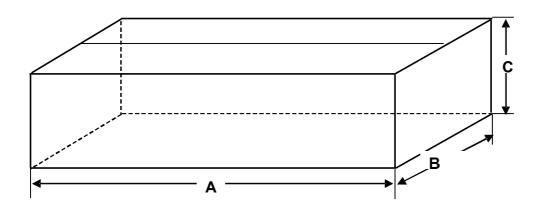




2. AIR BAG



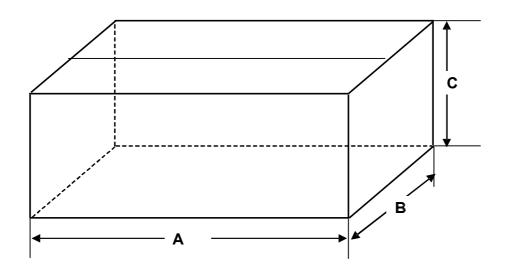
3. INNERBOX





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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