

G30H120CTFW

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 120 Volts FORWARD CURRENT - 30 Amperes

FEATURES

- · High junction temperature capability
- Negligible switching losses
- Good trade off between leakage current and forward voltage drop
- Qualification is according to AEC-Q101Rev_D

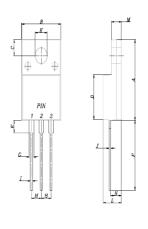
APPLICATION

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

MECHANICAL DATA

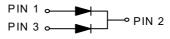
- Case: JEDEC TO-220ABFP
- Case Material: "Green" Molding compound, UL flammability classification 94V-0,"Halogen-free".
- · Lead free finish, RoHS compliant
- · Polarity : As marked on body
- Marking code: G30H120CTFW
- Weight: 0.05 ounces, 1.558 grams (Approximate)

ITO-220(S)AB(WB)



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			
E	2.10	2.50			
F	13.00	13.70			
G	1.15	1.37			
Н	2.40	2.70			
I	0.50	0.80			
J	0.45	0.70			
K	3.00	3.30			
L	4.46	4.87			
М	2.48	2.80			
N	2.50	2.80			
All dimension in millimeter					

REV.- 1, Nov.-2019,KTHC212



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}	120	V	
Maximum DC blocking voltage		V _{DC}	120	V	
Maximum Average rectified forward current	@Tc = 85°C	lav	30	^	
Non repetitive peak reverse current	@tp=2us	I _{RSM}	3	A	
Peak forward surge 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	TEST CONDITION		TYP	MAX	UNIT
Forward voltage (Note 1)	I _F = 15A	T _J = 25°C T _J = 125°C	VF	 0.67	0.84	V
Reverse leakage current	V _R = 120V	T _J = 25°C T _J = 125°C	I _R	 0.8	5 5	uA mA
Typical junction capacitance (Note 2)		CJ	1000		pF	

THERMAL CHARACTERISTICS

ILKWAL CHARACTERISTICS				
PARAMETER	SYMBOL	TYP	UNIT	
Typical thermal resistance (Note 3.4)	RthJ∟	5	°C/W	
Typical the mai resistance (Note 5,4)	$RthJ_{C}$	4	O/VV	

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

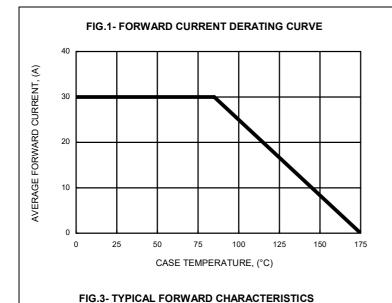
Note:

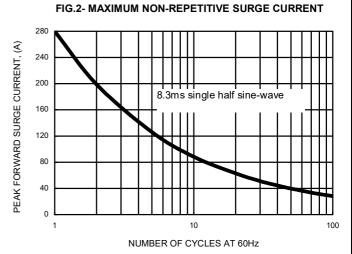
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC
- (3) Thermal Resistance test performed in accordance with JESD-51.
- (4) The unit mounted on Aluminum plate 30mm x 40mm x 1.62mm and Copper heatsink 200mm x 200mm x 5mm in free air condition

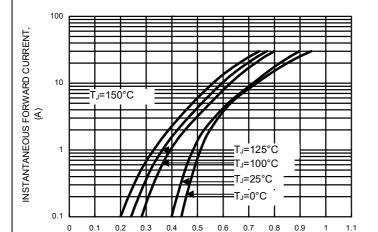
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RATING AND CHARACTERISTIC CURVES G30H120CTFW









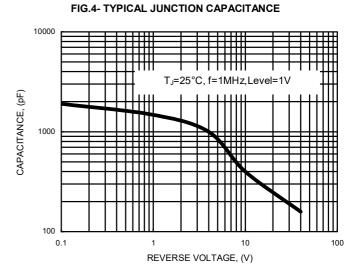
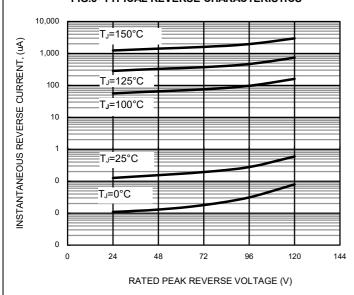


FIG.5- TYPICAL REVERSE CHARACTERISTICS

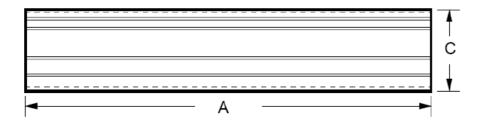
INSTANTANEOUS FORWARD VOLTAGE, (V)

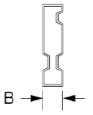




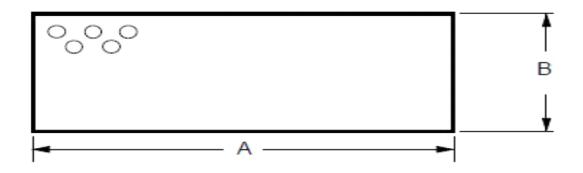
Packaging Information:

1. TUBE

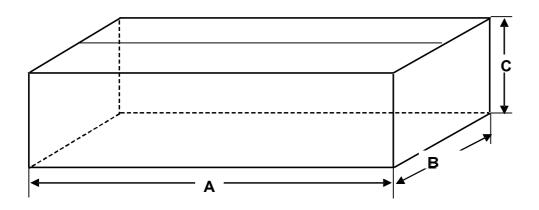




2. AIR BAG



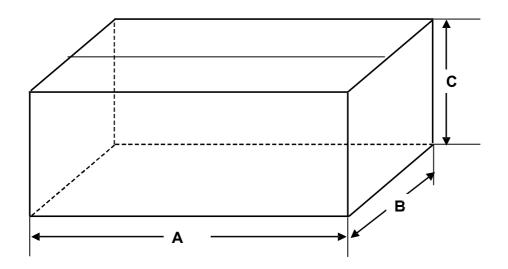
3. INNERBOX





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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