

G30C120CTW

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 120 Volts FORWARD CURRENT - 30 Amperes

FEATURES

- High efficiency
- · Reduced high temperature reverse leakage
- · Reduced ultra-low forward voltage drop
- Qualification is according to AEC-Q101 Rev_C

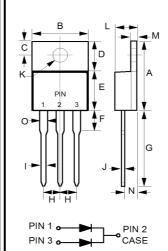
APPLICATION

- · DC to DC converter
- · AC to DC Adaptors

MECHANICAL DATA

- Case: JEDEC TO-220AB
- Case Material: "Green" molding compound, UL flammability classification 94V-0,(No Br. Sb. Cl.) "Halogen-free".
- Lead free finish, RoHS compliantWeight: 1.927 grams (Approximate)
- Marking code: G30C120CTW

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		
Е	8.26	9.28		
F		4.20		
G	12.70	14.73		
Н	2.29	2.79		
- 1	0.51	1.00		
J	0.30	0.64		
K	3.53Ф	4.09Ф		
L	3.56	4.83		
M	1.14	1.40		
N	2.03	2.92		
0	1.14	1.37		
All Dimensions in millimeter				

REV.-0, May-2018, KTHC187

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 output current	@T _C =110°C	I _(AV)	30	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	200	А
Non repetitive peak reverse current	@tp=2us	I _{RSM}	3	Α
Operating junction and Storage Temperature rang	ie	T _J , T _{STG}	-55 ~ +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	TYP	MAX	UNIT
Forward voltage (Note1)	I _F =15A	T _J =25°C T _J =125°C	VF	 0.72	0.97 0.73	V
Leakage current	V _R =120V	T _J =25°C T _J =125°C	I _R	 5.3	35 20	uA mA
Typical junction capacitance (Note 2)		CJ	370		pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note 3, 4)	RthJc	2	°C/W
Typical thermal resistance (Note 5, 4)	RthJ∟	1	

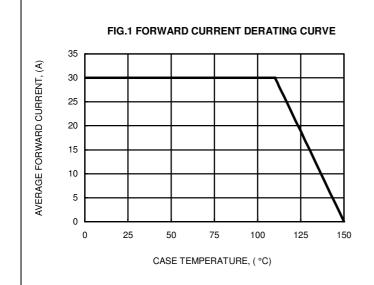
(1) 300us pulse width, 2% duty cycle.

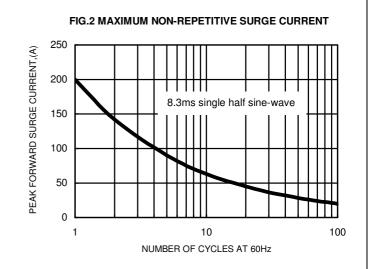
Note:

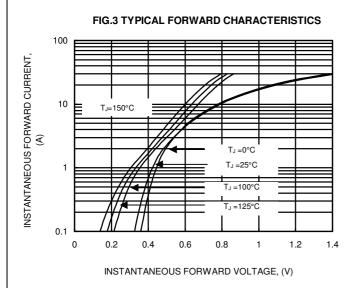
- (2) Measured at 1.0MHz and applied voltage of 4.0V DC.
- (3) Thermal resistance test performed in accordance with JESD-51.
- (4) The unit mounted on fin-type heatsink 85mm x 32mm x 24mm

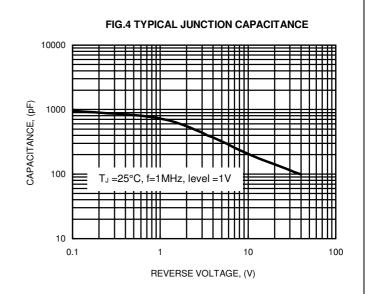
RATING AND CHARACTERISTIC CURVES G30C120CTW

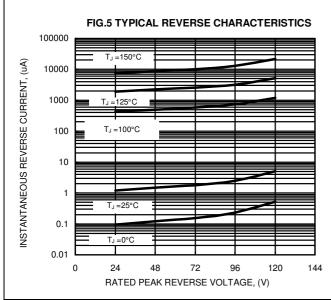














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