

G30E120CTW

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

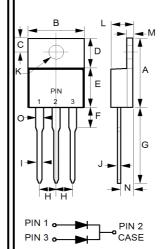
APPLICATION

- 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 compliant
- Weight: 1.927 grams (Approximate)
- Marking code: G30E120CTW

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		
E	8.26	9.28		
F		4.20		
G	12.70	14.73		
Н	2.29	2.79		
ı	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				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ 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 =120℃	I (AV)	30	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	270	Α
Non repetitive peak reverse current	@tp=2uS	I _{RSM}	3	Α
Operating junction and Storage Temperature range		T _J , T _{STG}	-55 ~ + 150	C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CO	NDITIONS	SYMBOL	TYP	MAX	UNIT
Forward voltage (Note1)	I _F =15A	Tյ=25℃ Tյ=125℃	V _F	0.69	0.91 0.78	V
Leakage current	V _R =120V	T _J =25℃ T _J =125℃	I _R	 7.0	40 21	uA mA
Typical junction capacitance (Note 2)		C _J	510		pF	

THERMAL CHARACTERISTICS

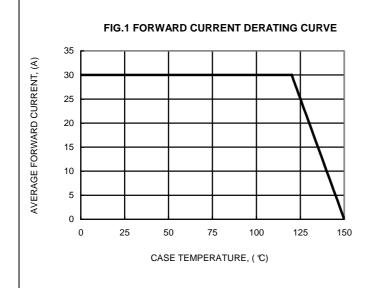
PARAMETER	SYMBOL	TYP	UNIT	
Typical thermal resistance (Note 3,4)	RthJ _C	1	€W.	
Typical thermal resistance (Note 3,4)	RthJ∟	2	C/VV	

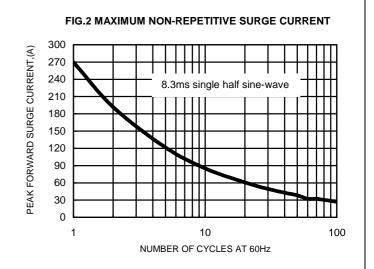
Note: REV.-0, Dec -2016, KTHC147

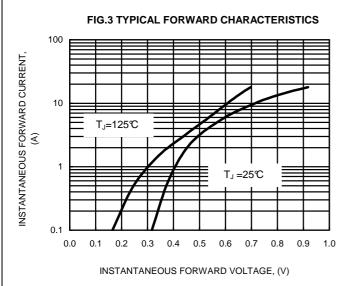
- (1) 300us pulse width, 2% duty cycle.
- 2) Measured at 1.0MHz and applied voltage of 4.0V DC.
- (3) Thermal resistance test performed in accordance with JESD-51.
- (4) The unit mounted on fin type heatsink (50.5mm x 22mm x 50.3mm) in free air condition

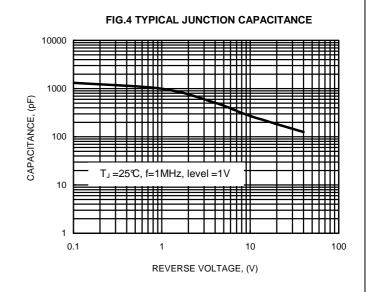
RATING AND CHARACTERISTIC CURVES G30E120CTW

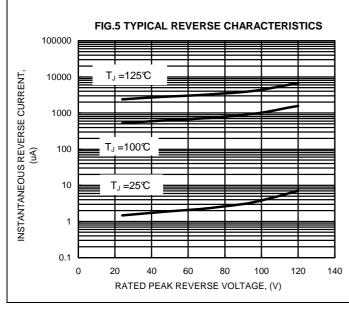














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