

G30E100CTW

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 100 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

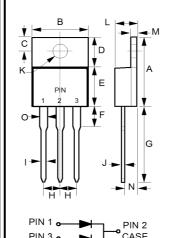
APPLICATION

- 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: G30E100CTW

TO-220AB



	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			
Ш	8.26	9.28			
F		4.20			
G	12.70	14.73			
Н	2.29	2.79			
I	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					

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwis e 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℃	I (AV)	30	Α
Peak forward surge current 8.3ms single half sine-wave Superimposed on rated load.		I _{FSM}	250	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 C	ONDITIONS	SYMBOL	TYP	MAX	UNIT
Forward voltage (Note1)	I _F =15A	TJ=25℃ TJ=125℃	V _F	 	0.77 0.66	٧
Leakage current	V _R =100V	Tյ=25℃ Tյ=125℃	I _R		30 12	uA mA
Typical junction capacitance (Note 2)		CJ	550		pF	

THERMAL CHARACTERISTICS

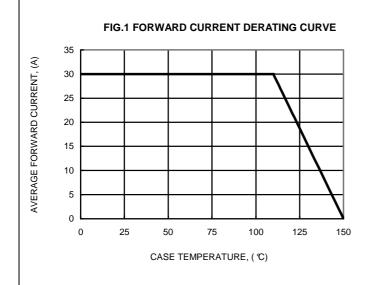
PARAMETER	SYMBOL	ТҮР		UNIT	
Typical thermal resistance (Note 3,4)	RthJc	2		€/W	
Typical thermal resistance (Note 3,4)	RthJ∟	1		C/VV	
Note:			REV.2 , Nov -2016, h	CTHC140	

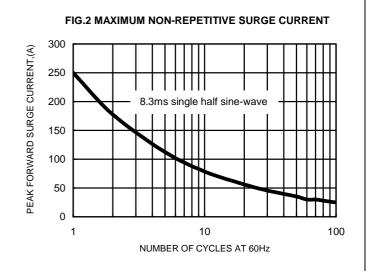
Note:

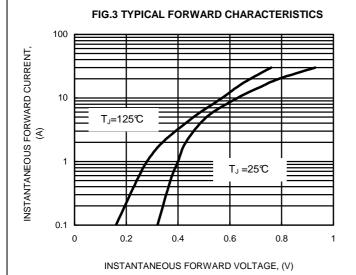
- 300us pulse width, 2% duty cycle. Measured at 1.0MHz and applied voltage of 4.0V DC.
- Thermal resistance test performed in accordance with JESD-51.
- The unit mounted on Fin type heatsink(100mm x 75mm x 27mm)

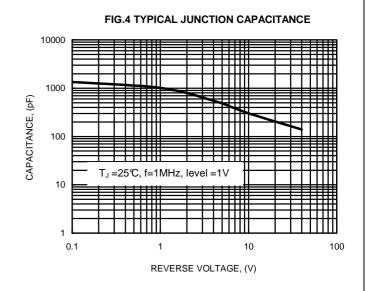
RATING AND CHARACTERISTIC CURVES G30E100CTW

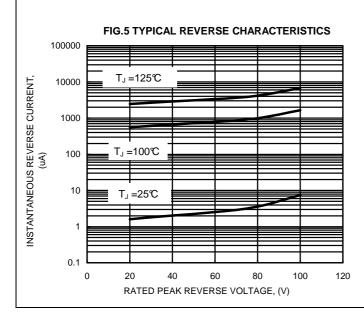














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