

G30C100CTW

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

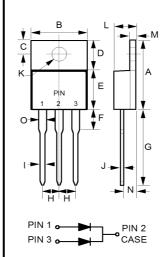
APPLICATION

- · 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: G30C100CTW

TO-220AB



O-220AB MIN	MAX			
	MAX			
1440				
14.40	15.20			
9.65	10.67			
2.54	3.43			
5.84	6.86			
8.26	9.28			
	4.20			
12.70	14.73			
2.29	2.79			
0.51	1.00			
0.30	0.64			
3.53Ф	4.09Ф			
3.56	4.83			
1.14	1.40			
2.03	2.92			
1.14	1.37			
All Dimensions in millimeter				
	2.54 5.84 8.26 12.70 2.29 0.51 0.30 3.53Ф 3.56 1.14 2.03 1.14			

REV.-1, May-2018, KTHC173

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}	100	V
Maximum DC blocking voltage		V _{DC}	100	V
Maximum Average rectified output current	@T _C =120°C	I _(AV)	30	Α
Peak forward surge current 8.3ms single half sine superimposed on rated load.	-wave	I _{FSM}	250	А
Non repetitive peak reverse current	@tp=2us	I _{RSM}	3	Α
Operating junction and Storage Temperature range	је	T _J , T _{STG}	-55 ~ +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST C	TEST CONDITIONS		ТҮР	MAX	UNIT
	I _F =2A	T _J =25°C		0.46		
Forward voltage (Note1)	I _F =5A	T _J =25°C	V _F	0.56		V
	I _F =15A	T _J =25°C T _J =125°C		 0.65	0.81 0.70	
Leakage current	V _R =100V	T _J =25°C T _J =125°C	I _R	 5.3	30 12	uA mA
Typical junction capacitance (No	ote 2)		CJ	370)	pF

THERMAL CHARACTERISTICS

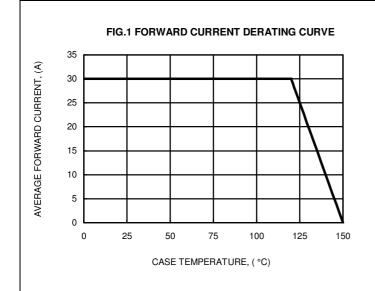
PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note 3, 4)	RthJc	1	°C/W
Typical thermal resistance (Note 3, 4)	RthJ∟	1	O/VV

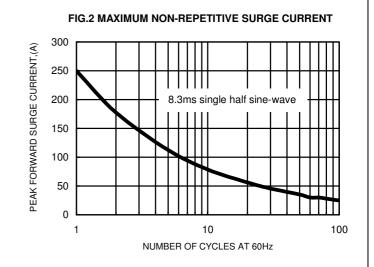
Note:

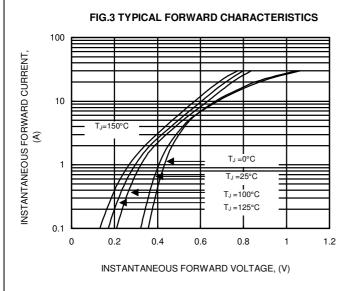
- 300us pulse width, 2% duty cycle. Measured at 1.0MHz and applied voltage of 4.0V DC.
- Thermal resistance test performed in accordance with JESD-51.
- The unit mounted on fin type heatsink (85mm x 32mm x 24mm)

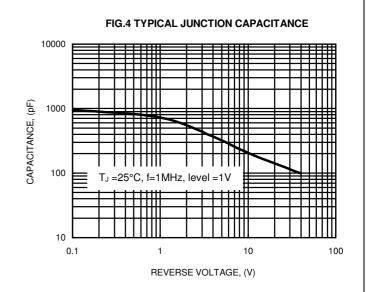
RATING AND CHARACTERISTIC CURVES G30C100CTW

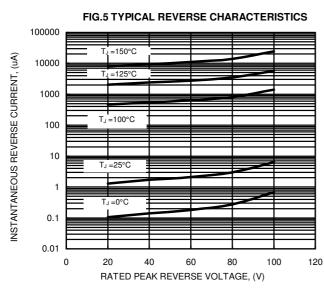














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