

G30C100CTFW

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

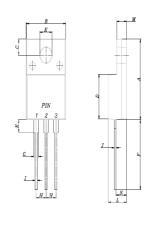
APPLICATION

- DC to DC converter
- · AC to DC Adaptors

MECHANICAL DATA

- Case: JEDEC TO-220ABFP
- Case Material: "Green" molding compound, UL flammability classification 94V-0,(No Br. SB. Cl.) "Halogen-free".
- · Lead free finish, RoHS compliant
- Weight: 1.558 grams (Approximate)
- Marking code: G30C100CTFW

ITO-220(S)AB



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		
	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.-0, May-2018, KTHC186



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 =65°C	I _(AV)	30	Α
Peak forward surge current 8.3ms single half sine-v superimposed on rated load.	ave	I _{FSM}	250	А
Non repetitive peak reverse current		I _{RSM}	3	Α
Operating junction and Storage Temperature range		T _J , T _{STG}	-55 ~ +150	°C

STATIC ELECTRICAL CHARACTERISTICS

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PARAMETER	TEST C	TEST CONDITIONS		TYP	MAX	UNIT
Forward voltage (Note1)	I _F =2A	T _J =25°C		0.46		
	I _F =5A		VF	0.56		V
	I _F =15A	T _J =25°C T _J =125°C		 0.69	0.81 0.70	
Leakage current	V _R =100V	T _J =25°C T _J =125°C	I _R	 6.0	30 12	uA mA
Typical junction capacitance (Note	e 2)		C. _J	375		pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
Typical thormal registance (Note 2.4)	RthJc	4	°C/W
Typical thermal resistance (Note 3,4)	RthJ∟	3	

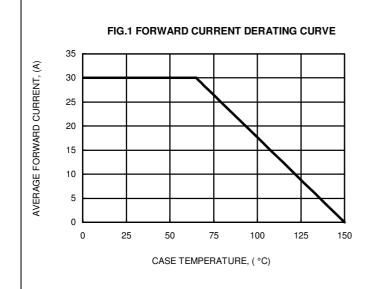
(1) 300us pulse width, 2% duty cycle.

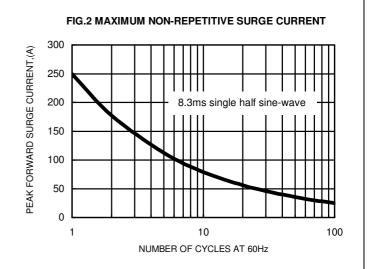
Note:

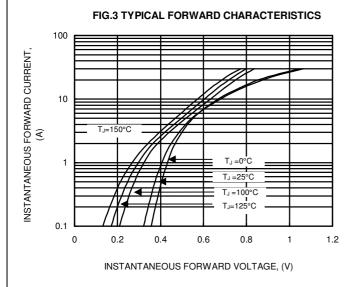
- (2) Measured at 1.0MHz and applied voltage of 4.0V DC.
- (3) Thermal resistance test performed in accordance with JESD-51.
- (4) The unit mounted on cooper heatsink (251.5mm x 151.5mm x 11.8mm) & Aluminum plate (29.5mm x 35.8mm x 1.6mm) in free air condition

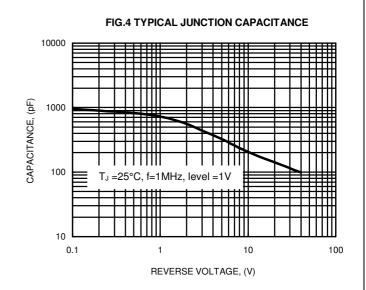
RATING AND CHARACTERISTIC CURVES G30C100CTFW

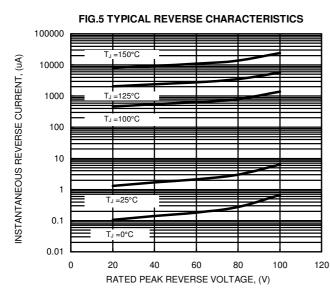














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