

G10E100CTW

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 100 Volts **FORWARD CURRENT** - 10 Amperes

FEATURES

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

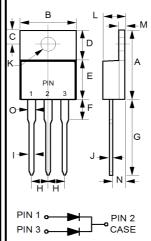
APPLICATION

- 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: G10E100CTW

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		
I	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}	100	V	
Maximum DC blocking voltage		V _{DC}	100	V	
Maximum Average rectified output current	@T _C =85℃	I (AV)	10	А	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	150	А	
Non repetitive peak reverse current	@tp=2uS	I _{RSM}	3	А	
Operating junction and Storage Temperature range	•	T _J , T _{STG}	-55 ~ + 150	C	

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	TYP	MAX	UNIT
Forward voltage (Note1)	I _F =5A	T _J =25℃ T _J =125℃	V _F	 0.57	0.68 0.62	٧
Leakage current	V _R =100V	T _J =25℃ T _J =125℃	I _R	 4.7	30 10	uA mA
Typical junction capacitance (Note 2)		CJ	315		pF	

THERMAL CHARACTERISTICS

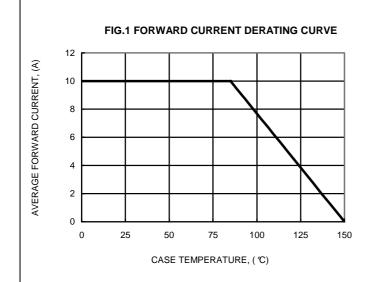
PARAMETER	SYMBOL	TYP		UNIT	
	$RthJ_{\mathbb{C}}$	10		€\M	
Typical thermal resistance (Note 3, 4)	$RthJ_L$	7			
	$RthJ_a$	14			
Note:			REV1 , Apr -2017, I	KTHC148	

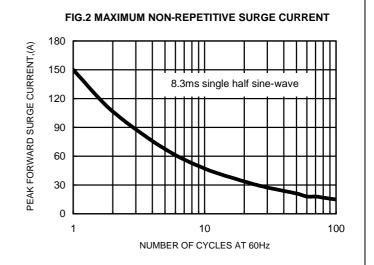
Note:

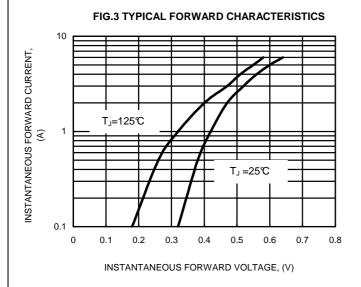
- 300us pulse width, 2% duty cycle.
- Measured at 1.0MHz and applied voltage of 4.0V DC. (2)
- Thermal resistance test performed in accordance with JESD-51. (3)
- (4) The device mounted on Aluminum plate heatsink (21.3mm x 25.1mm x 24.1mm)

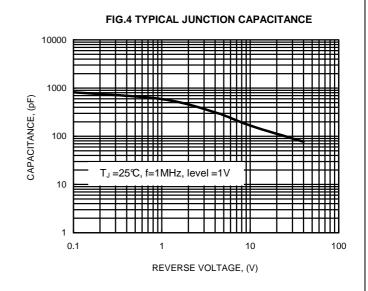
RATING AND CHARACTERISTIC CURVES G10E100CTW

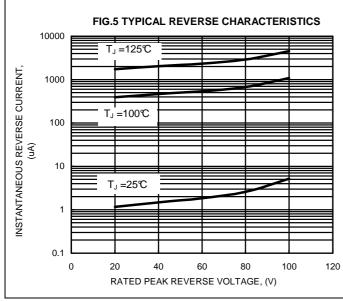














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