

G20E100CTW

REVERSE VOLTAGE FORWARD CURRENT

- 100 Volts- 20 Amperes

TRENCH SCHOTTKY RECTIFIER

FEATURES

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

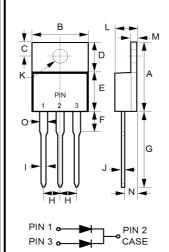
APPLICATION

- 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: G20E100CTW

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			
	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					

REV.2, Nov-2016, KTHC142

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 =130℃	I (AV)	20	Α
Peak forward surge current 8.3ms single half sine-wave Superimposed on rated load.		I _{FSM}	250	А
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 =10A	Tյ=25℃ Tյ=125℃	V _F	 	0.72 0.64	V
Leakage current	V _R =100V	Tյ=25℃ Tյ=125℃	I _R		30 12	uA mA
Typical junction capacitance (Note 2)		CJ	440		pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note 3, 4)	$RthJ_C$	2	€/W
Typical thermal resistance (Note 3, 4)	$RthJ_L$	1	C/VV

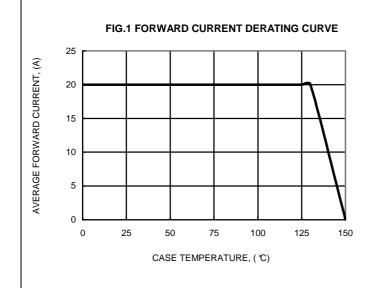
(1) 300us pulse width, 2% duty cycle.

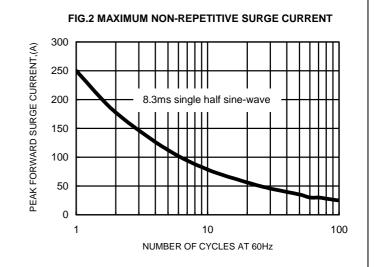
Note:

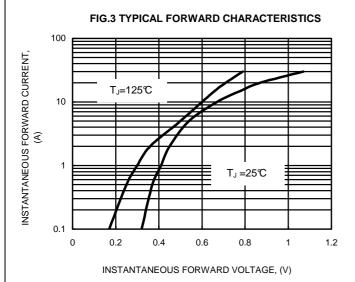
- (2) Measured at 1.0MHz and applied voltage of 4.0V DC.
- (3) Thermal resistance test performed in accordance with JESD-51.
- 4) The unit mounted on Fin type heatsink (75mm x 75mm x 5mm)

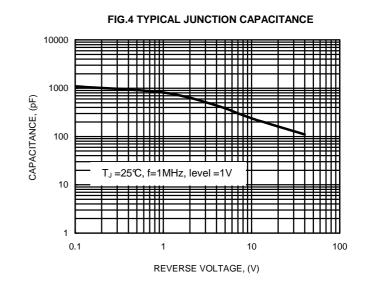
RATING AND CHARACTERISTIC CURVES G20E100CTW

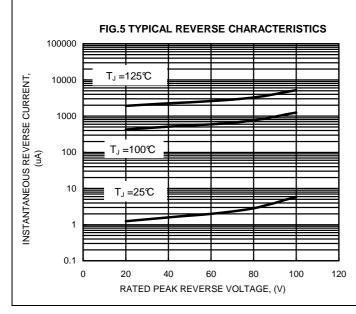














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