

G20E120CTW

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 120 Volts **FORWARD CURRENT** - 20 Amperes

TO-220AB

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: G20E120CTW

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				

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}	120	V
Maximum DC blocking voltage		V _{DC}	120	V
Maximum Average rectified output current	@T _C =100℃	I (AV)	20	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		$T_{J_i} T_{STG}$	-55 ~ +150	$^{\circ}$

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	TYP	MAX	UNIT
Forward voltage (Note1)	I _F =10A	Tյ=25℃ Tյ=125℃	V _F	 0.66	0.83 0.76	V
Leakage current	V _R =120V	Tյ=25℃ Tյ=125℃	I _R	 3.92	30 17	uA mA
Typical junction capacitance (Note 2)			C _J	380		pF

THERMAL CHARACTERISTICS

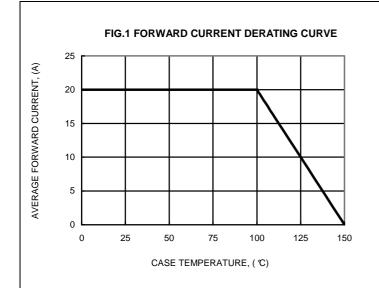
PARAMETER	SYMBOL	TYP		UNIT
Typical thermal resistance (Note 3,4)	RthJc	3		.c\M
Typical theimal resistance (Note 5,4)	RthJ∟	6		C/ VV
Note:	REV			KTHC144

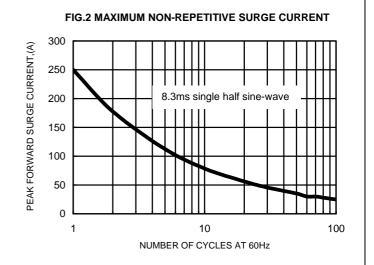
300us pulse width, 2% duty cycle.

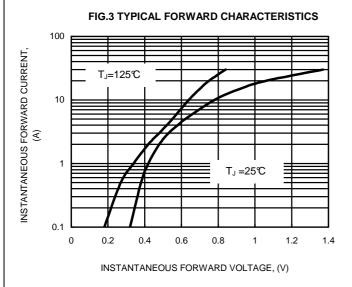
- Measured at 1.0MHz and applied voltage of 4.0V DC.
- Thermal resistance test performed in accordance with JESD-51.
- The unit mounted on Aluminum plate heatsink (100.88mm x 75.34mm x 26.78mm).

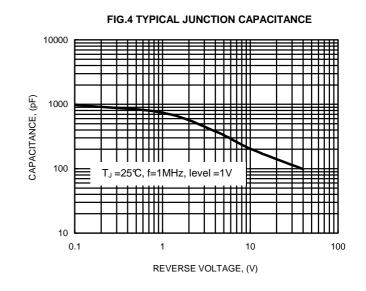
RATING AND CHARACTERISTIC CURVES G20E120CTW

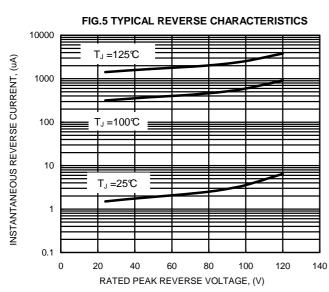














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