

G40E120CTW

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 120 Volts FORWARD CURRENT - 40 Amperes

FEATURES

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

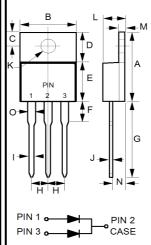
APPLICATION

- 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: G40E120CTW

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	
E	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	
M	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 otherwis e 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 =120℃	I (AV)	40	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	300	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	ONDITIONS	SYMBOL	TYP	MAX	UNIT
Forward voltage (Note1)	I _F =20A	Tյ=25℃ Tյ=125℃	V _F	 0.68	0.82 0.74	V
Leakage current	V _R =120V	Tյ=25℃ Tյ=125℃	I _R	 15.6	60 30	uA mA
Typical junction capacitance (Note 2)		C _J	860		pF	

THERMAL CHARACTERISTICS

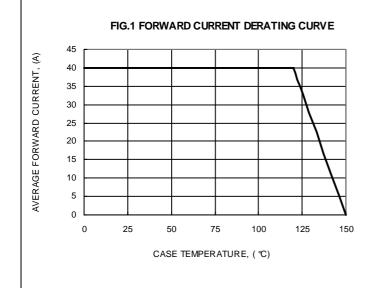
PARAMETER	SYMBOL	TYP	UNIT
Typical thermal resistance (Note 3,4)	RthJc	1	.c\M
Typical thermal resistance (Note 5,4)	$RthJ_L$	3	

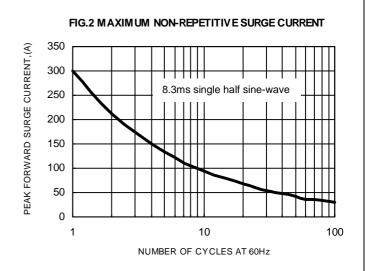
Note: REV.-0, Feb -2017, KTHC151

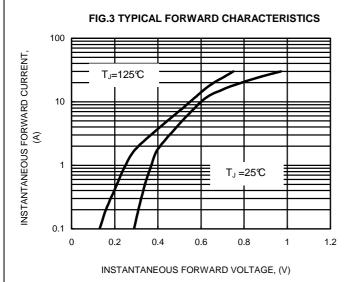
- (1) 300us pulse width, 2% duty cycle.
- (2) Measured at 1.0MHz and applied voltage of 4.0V DC.
- (3) Thermal resistance test performed in accordance with JESD-51.
- (4) The unit mounted on fin type heatsink (85.2mm x 32mm x .24mm)

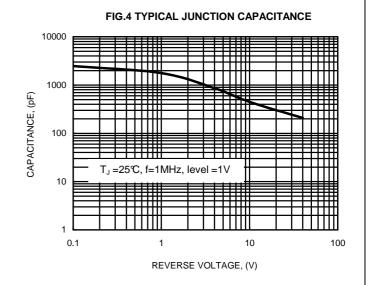
RATING AND CHARACTERISTIC CURVES G40E120CTW

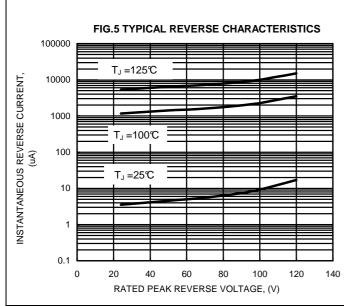














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