

G40C120CTW

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

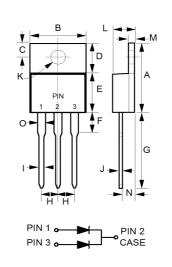
APPLICATION

- · 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: G40C120CTW

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		
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°C 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	٧
Maximum Average rectified output current	@T _C =115°C	I _(AV)	40	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	250	Α
Operating junction and Storage Temperature range		T _J , T _{STG}	-55 ~ + 150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST C	ONDITIONS	SYMBOL	TYP	MAX	UNIT
Forward voltage (Note1)	I _F =20A	T _J =25°C T _J =125°C	V _F	 0.74	0.98 0.75	V
Leakage current	V _R =120V	T _J =25°C T _J =125°C	IR	 5.71	50 25	uA mA
Typical junction capacitance (Not	e 2)		CJ	510	0	pF

THERMAL CHARACTERISTICS

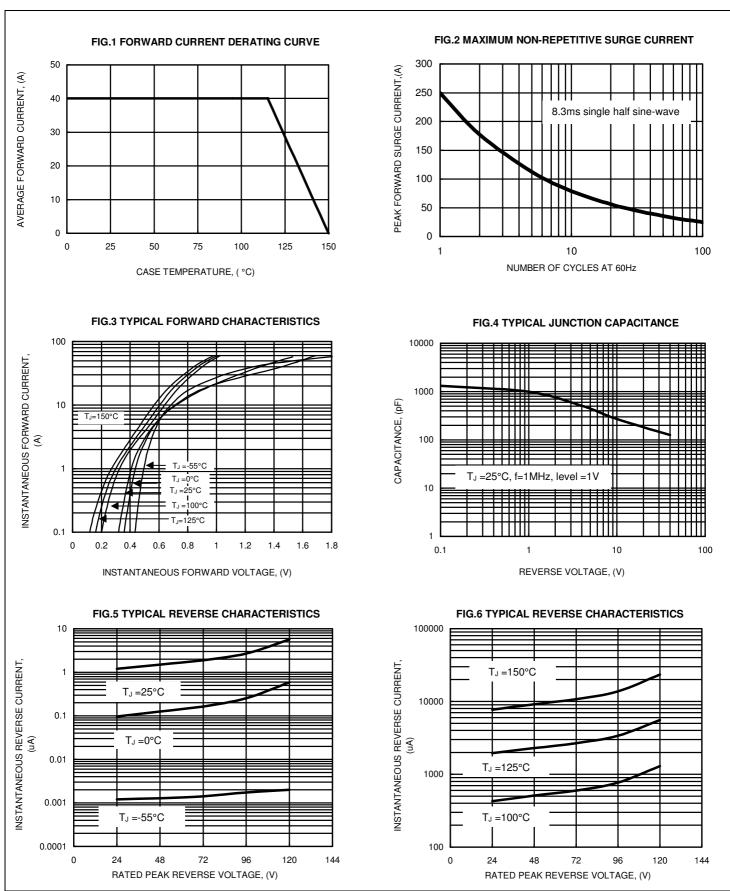
PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note 3,4)	RthJc	1	°C/W
Typical thermal resistance (Note 5,4)	RthJ∟	1	

Note: REV.-0 , Apr-2018, KTHC183

- (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 Aluminum fin-type heatsink 100mm x 100mm x 5mm

RATING AND CHARACTERISTIC CURVES G40C120CTW







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