

G40C120CTFW

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

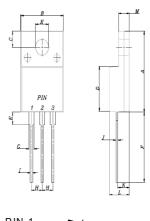
APPLICATION

- DC to DC converter
- · AC to DC Adaptors

MECHANICAL DATA

- Case: JEDEC TO-220ABFP
- Case Material: "Green" molding compound, UL flammability classification 94V-0,(No Br. Sb. Cl.) "Halogen-free".
- · Lead free finish, RoHS compliant
- Weight: 1.558 grams (Approximate)
- Marking code: G40C120CTFW

ITO-220(S)AB



ITO-220(S)AB				
DIM	MIN MAX			
Α	14.95	15.95		
В	10.00	10.40		
С	2.76	3.36		
D	8.50	8.80		
E	2.10	2.50		
F	13.00	13.70		
G	1.15	1.37		
Н	2.40	2.70		
I	0.50	0.80		
J	0.45	0.70		
K	3.00	3.30		
L	4.46	4.87		
М	2.48	2.80		
N	2.50	2.80		
All dimension in millimeter				

PIN 1	• ••	
PIN 3	PIN 2	

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	V
Maximum Average rectified output current	@T _C =20°C	I _(AV)	40	Α
Peak forward surge current 8.3ms single half sine superimposed on rated load.	e-wave	IFSM	250	Α
Operating junction and Storage Temperature ran	ge	T _J , T _{STG}	-55 ~ +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CO	ONDITIONS	SYMBOL	TYP	MAX	UNIT
Forward voltage (Note1)	I _F =20A	T _J =25°C T _J =125°C	VF	 0.74	0.98 0.75	V
Leakage current	V _R =120V	T _J =25°C T _J =125°C	I _R	 5.71	50 25	uA mA
Typical junction capacitance (Note 2)			CJ	51	0	pF

THERMAL CHARACTERISTICS

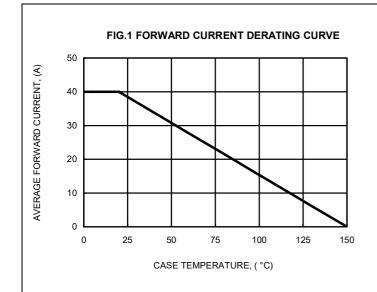
PARAMETER	SYMBOL	TYP	UNIT
Typical thermal resistance (Note 3,4)	RthJc	4.2	°C/W
Typical thermal resistance (Note 3,4)	RthJ∟	3.2	C/VV

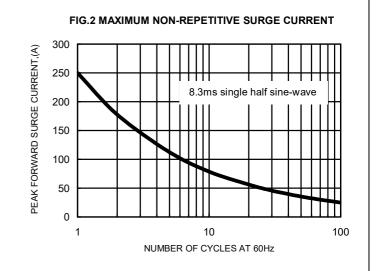
Note: REV-0 , May-2018, KTHC190

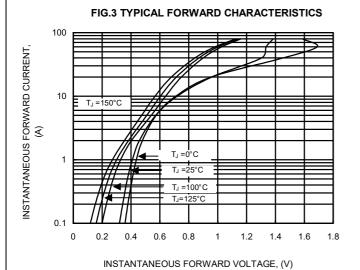
- (1) 300us pulse width, 2% duty cycle.
- (2) Measured at 1.0MHz and applied voltage of 4.0V DC.
- 3) Thermal resistance test performed in accordance with JESD-51.
- (4) The unit mounted on fin-type heatsink (75mm x 100mm x 26.8mm) with copper heatsink (19.9mm x 12.1 mm x 12.6mm) in free air condition

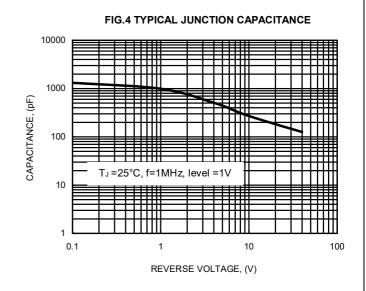
RATING AND CHARACTERISTIC CURVES G40C120CTFW

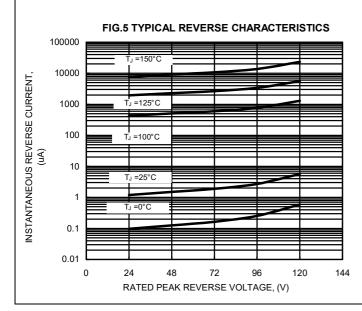














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