

G40120CTW

SCHOTTKY BARRIER RECTIFIERS

REVERSE VOLTAGE - 120 Volts FORWARD CURRENT - 40 Amperes

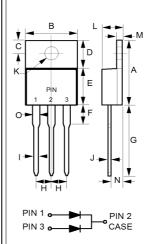
FEATURES

- Trench Schottky technology
- Low power loss, high efficiency
- Low forward drop voltage
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

MECHANICAL DATA

- Case: TO-220AB molded plastic
- Case Material: "Green" molding compound, UL Flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- Plastic package has UL flammability classification 94V-0
- Terminals: Matte Tin
- Lead Free Finish, RoHS Compliant
- Polarity: As marked on the body
- Weight: 0.072 ounces, 2.0275 grams(Approximate)
- Mounting position: Any
- Max. mounting torque = 0.5 N.m (5.1 Kgf-cm)

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				

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
Average Rectified Output Current per device @Tc=100°C	I _F	40	Α
Non-repetitive Peak Forward Surge Current single half sine-wave tp=8.3ms	I _{FSM}	250	А
Operating and Storage temperature range	T _{J,} T _{STG}	-55 to +150	Ĉ

STATIC ELECTRICAL CHARACTERISTICS

Parameter	Test condition	Symbol	Тур.	Max.	Unit
Maximum Forward Voltage Note(1)	IF=20A @Tj=25℃ IF=20A @Tj=125℃	VF	0.79 0.64	0.86 0.72	V
Maximum DC Reverse Current	VR=120V @Tj=25℃ @Tj=125℃	IR	- 6	400 32	uA mA
Junction Capacitance per element	1MHz, VR=4V	Cj	800	-	pF

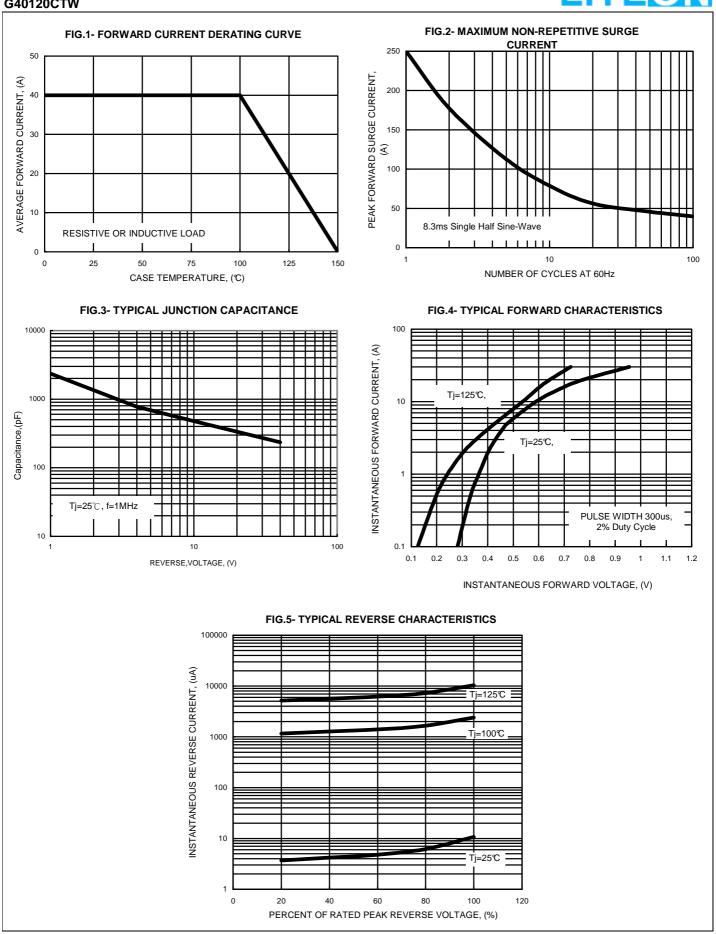
THERMAL CHARACTERISTICS

Parameter	SYMBOL	VALUE		UNIT
Typical thermal resistance Junction (Note 2&3)	$R_{\Theta JC}$	2.0		C/W
	R_{\ThetaJL}	5.0		
	R_{\ThetaJA}	10		
Note:		REV. 2, Jan-2015, KTHC118		

- 300us Pulse Width, 2% Duty Cycle.
- Thermal Resistance Junction to Case, Lead and Ambient.
- Device mounted on 100 x 100 x 2 mm Copper plate.

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