

## **G40C100CTW**

#### TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 100 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

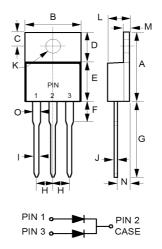
#### **APPLICATION**

- · 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: G40C100CTW

# 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°C ambient temperature unless otherwise specified.

#### **ABSOLUTE RATINGS**

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		$V_{RRM}$	100	V
Maximum DC blocking voltage		V <sub>DC</sub>	100	٧
Maximum Average rectified output current	@T <sub>C</sub> =115°C	I <sub>(AV)</sub>	40	Α
Peak forward surge current 8.3ms single half sine-was superimposed on rated load.	ave	I <sub>FSM</sub>	250	Α
Operating junction and Storage Temperature range		T <sub>J</sub> , T <sub>STG</sub>	-55 ~ <b>+</b> 150	°C

#### STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST C	ONDITIONS	SYMBOL	TYP	MAX	UNIT
Forward voltage (Note1)	I <sub>F</sub> =20A	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	V <sub>F</sub>	 0.71	0.84 0.73	V
Leakage current	V <sub>R</sub> =100V	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	IR	 6.41	30 12	uA mA
Typical junction capacitance (Not	e 2)		Сл	55	0	pF

#### THERMAL CHARACTERISTICS

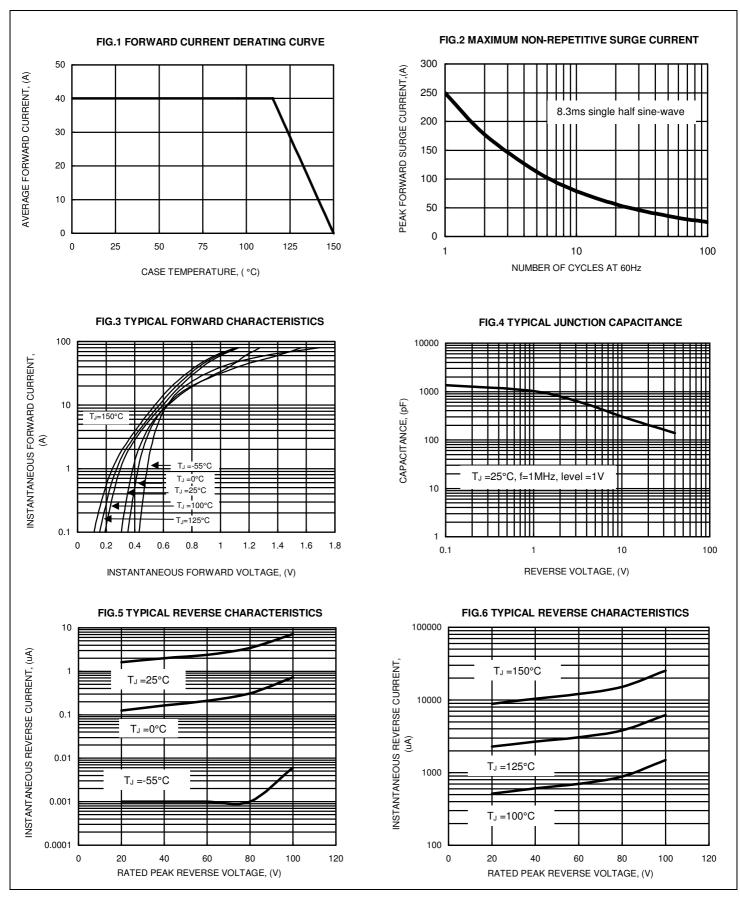
PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note 3,4)	RthJc	1	°C/W
Typical thermal resistance (Note 5,4)	RthJ∟	1	

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 G40C100CTW







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