LITE-ON LITEON SEMICONDUCTOR

G40E100CTFW

- 100 Volts

3.36

8.80

3.90

1.70

2.70

0.80

0.70

3.30

4 87

2.80

2.80

1.90

TRENCH SCHOTTKY RECTIFIER

FEATURES

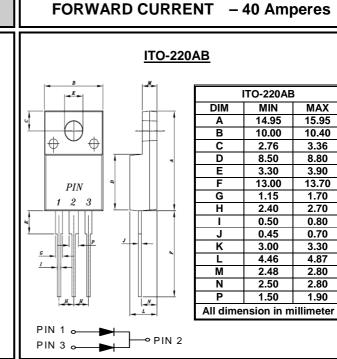
- High efficiency
- Reduced high temperature reverse leakage
- Reduced ultra-low forward voltage drop
- Qualification is according to AEC-Q101 Rev_C

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: G40E100CTFW



REVERSE VOLTAGE

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwis e specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V _{RRM}	100	V
Maximum DC blocking voltage		V _{DC}	100	V
Maximum Average rectified output current	@T _c =95℃	I _(AV)	40	А
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	А
Operating junction and Storage Temperature range		$T_{J,} T_{STG}$	-55 ~ +150	C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	ТҮР	MAX	UNIT
Forward voltage (Note1)	I _F =20A	Tյ=25℃ Tյ=125℃	V _F		0.71 0.64	V
Leakage current	V _R =100V	Tյ=25℃ Tj=125℃	I _R	 16.51	100 30	uA mA
Typical junction capacitance (Note 2)		CJ	1005		pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note 3)	RthJ _c	2	СW
Typical mermai resistance (Note 3)	RthJ∟	3	0,00
Note :			REV1 , Jun-2017, KTHC153

Note :

300us pulse width, 2% duty cycle. (1)

Measured at 1.0MHz and applied voltage of 4.0V DC. (2)

Thermal resistance test performed in accordance with JESD-51. (3)

RATING AND CHARACTERISTIC CURVES G40E100CTFW

LITEON

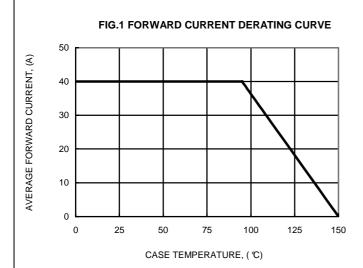
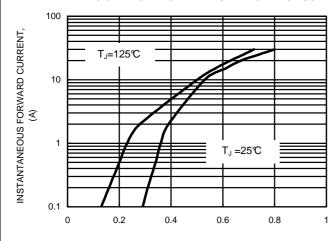


FIG.3 TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, (V)

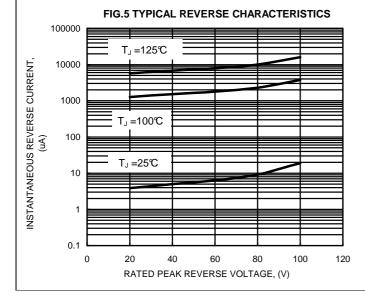


FIG.2 MAXIMUM NON-REPETITIVE SURGE CURRENT

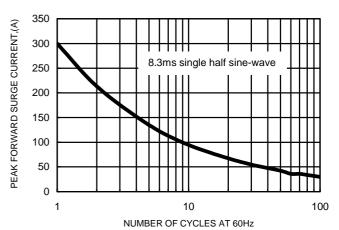
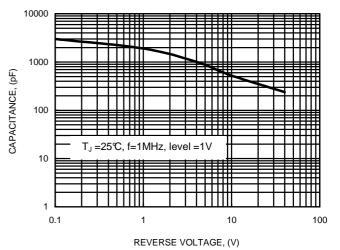


FIG.4 TYPICAL JUNCTION CAPACITANCE



LEGAL DISCLAIMER NOTICE



Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.