LITE-ON LITEON **G10E100CTFW** SEMICONDUCTOR **REVERSE VOLTAGE** - 100 Volts TRENCH SCHOTTKY RECTIFIER FORWARD CURRENT – 10 Amperes **FEATURES** ITO-220AB High efficiency • Reduced high temperature reverse leakage ITO-220AB • Reduced ultra-low forward voltage drop DIM MIN MAX • Qualification is according to AEC-Q101 Rev_C 15.95 14.95 Α В 10.00 10.40 \oplus ¢ **APPLICATION** С 2.76 3.36 • DC to DC converter D 8.50 8.80 3.30 3.90 E • AC to DC Adaptors F 13.00 13.70 PIN G 1.15 1.70 1 2 3 **MECHANICAL DATA** Н 2.40 2.70 Case: JEDEC TO-220ABFP 0.50 0.80 Τ 0.45 0.70 • Case Material: "Green" molding compound, UL .1 Κ 3.00 3.30 Flammability classification 94V-0,(No Br. Sb. Cl.) 4.46 4.87 Т "Halogen-free". М 2.48 2.80 2.80

- · Lead free finish, RoHS compliant
- Weight: 1.558 grams (Approximate)
- Marking code: G10E100CTFW

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 =60℃	I (AV)	10	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	150	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

PIN 3 -

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CO	NDITIONS	SYMBOL	ТҮР	MAX	UNIT
Forward voltage (Note1)	I _F =5A	Tյ=25℃ Tj=125℃	V _F	 0.57	0.68 0.62	V
Leakage current	V _R =100V	Tյ=25℃ Tj=125℃	I _R	 4.9	30 10	uA mA
Typical junction capacitance (Note 2)		CJ	315		pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note 3,4)	RthJ _c	14	
	RthJ∟	6	°C/W
	RthJa	18	
Note :	REV0 , [Dec-2016, KTHC146	

REV.-0, Dec-2016, KTHC146

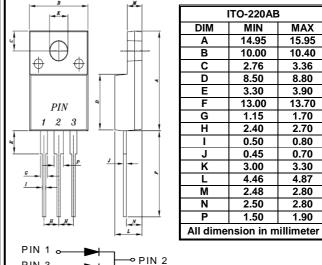
1.90

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

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

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

(4)The unit mounted on Aluminum heatsink plate (21.3 mm x 25.1mm x 24.1mm)



RATING AND CHARACTERISTIC CURVES G10E100CTFW

LITEON

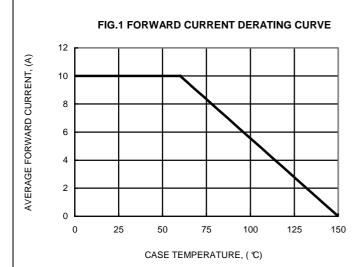
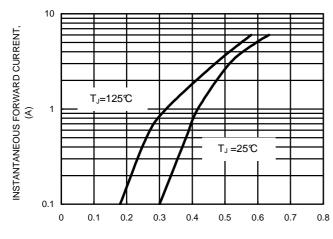


FIG.3 TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, (V)

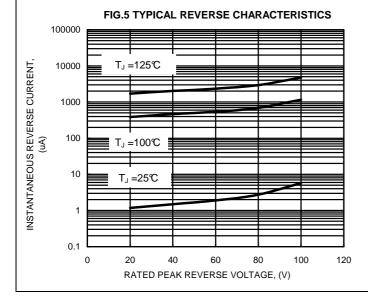


FIG.2 MAXIMUM NON-REPETITIVE SURGE CURRENT

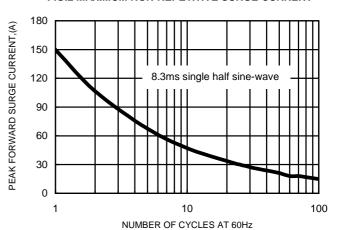
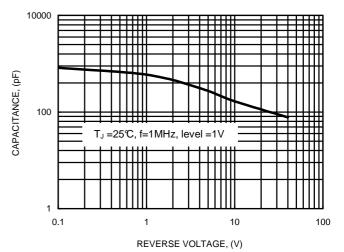


FIG.4 TYPICAL JUNCTION CAPACITANCE



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