LITEON SEMICONDUCTOR

G20C100CTW

- 100 Volts

- 20 Amperes

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-220AB
- Case Material: "Green" molding compound, UL flammability classification 94V-0, "Halogen-free".
- Lead free finish, RoHS compliant
- Weight: 1.927 grams (Approximate)
- Marking code: G20C100CTW

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

ABOOLOTE KATINGO			0)(1150)		-	
PARAMETER			SYMBOL	VALU	UNIT	
Maximum repetitive peak reverse voltage			VRRM	100		V
Maximum DC blocking voltage			V _{DC}	100		V
Maximum Average rectified output current @1		@Tc=120°C	I(AV)	20		Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		IFSM	150		А	
Non repetitive peak reverse current		@tp=2uS	I _{RSM}	3		А
Operating junction and Storage Temperature range			TJ, TSTG	-55 ~ +150		°C
STATIC ELECTRICAL C	HARACTERIS	FICS				
PARAMETER	TEST C	TEST CONDITIONS		ТҮР	MAX	UNIT
Forward voltage (Note1)	I _F =10A	TJ=25°C TJ=125°C	VF		0.80 0.75	V
Leakage current	V _R =100V	TJ=25°C TJ=125°C	IR	4.5	100 15	uA mA
THERMAL CHARACTER	RISTICS		· · ·			
PARAMETER			SYMBOL	ТҮР		UNIT
Typical thormal registrance (Note 2.2)			RthJc	2		°C/W

RthJ_L

Typical thermal resistance (Note 2,3)

Note :

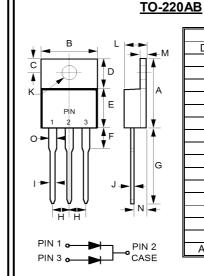
(1) 300us pulse width, 2% duty cycle.

(2) The unit mounted on copper heatsink (81.8mm x 80mm x 1.5mm)

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

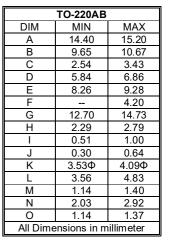
Please be aware that an **Important Notice and Disclaimer** concerning availability, disclaimers, and use in critical applications of LSC products thereto appears at the end of this Data Sheet.





REVERSE VOLTAGE

FORWARD CURRENT



°C/W

REV.-2, Sep -2019, KTHC159

2

RATING AND CHARACTERISTIC CURVES G20C100CTW

LITEON

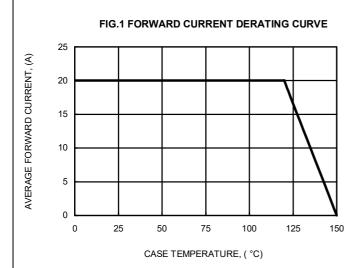
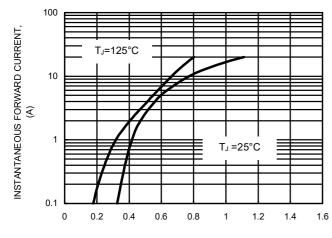


FIG.3 TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, (V)

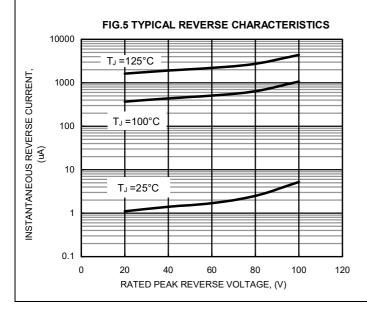


FIG.2 MAXIMUM NON-REPETITIVE SURGE CURRENT

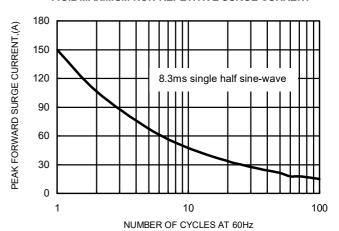
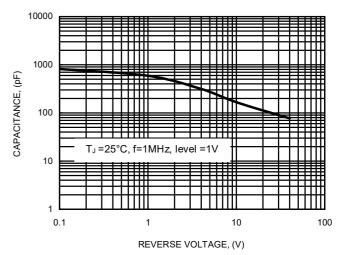
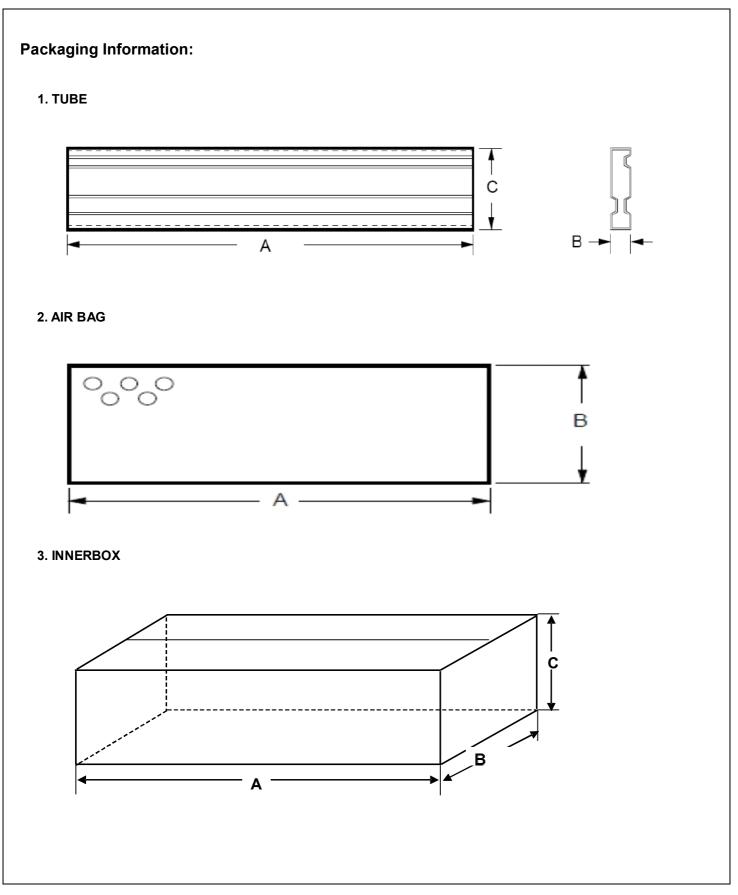


FIG.4 TYPICAL JUNCTION CAPACITANCE





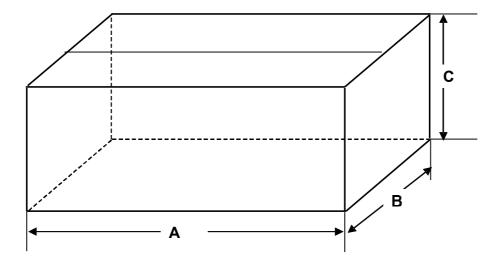


PACKAGING INFORMATION G20C100CTW



Packaging Information:

4. CARTON



Unit:mm

P/N	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	Q'ty/per	REMARK
TUBE	536	5.6	31.8	50	1
AIR BAG	800	550	1	1	1
INNERBOX	555	165	105	2000	40TUBE
CARTON	575	179	225	4K	2 INNER BOX



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