LITEON SEMICONDUCTOR

G40H100CTW

TRENCH SCHOTTKY RECTIFIER

FEATURES

- · High junction temperature capability
- Negligible switching losses
- Good trade off between leakage current and forward voltage drop
- Qualification is according to AEC-Q101 Rev_D

APPLICATION

- High frequency miniature switch mode of adaptors
- On-board DC-DC converters
- Use in high frequency inverters

MECHANICAL DATA

- Case: JEDEC TO-220AB
- Case Material: "Green" Molding compound, UL flammability classification 94V-0,"Halogen-free".
- · Lead free finish, RoHS compliant
- Polarity : As marked on body
- Marking code: G40H100CTW
- Weight: 0.07 ounces, 1.927 grams (Approximate)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER			SYMBOL	VALUE		UNIT
Maximum repetitive peak rev	/erse voltage		V _{RRM}	_{RM} 100		V
Maximum DC blocking voltage	ximum DC blocking voltage V _{DC} 100		00	V		
Maximum Average rectified f	orward current	@Tc = 120°C	I _{AV}	AV 40		
Non repetitive peak reverse	Non repetitive peak reverse current		IRSM	3		Α
Peak forward surge 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	250		А	
Operating and Storage temperature range		TJ,TSTG	-55 ~ +175		°C	
STATIC ELECTRICAL	CHARACTER	ISTICS				
PARAMETER	TEST C	TEST CONDITION		ТҮР	MAX	UNIT
Forward voltage (Note 1)	I _F = 20A	T _J = 25°C T _J = 125°C	VF	 0.64	0.79	V
Reverse leakage current	V _R = 100V	T」= 25°C T」= 125°C	I _R	 1.2	10 10	uA mA
Typical junction capacitance	Typical junction capacitance (Note 2)		CJ	1360		pF
THERMAL CHARACT	ERISTICS		· ·			
PARAMETER		SYMBOL	ТҮР		UNIT	
Typical thermal resistance (Note 3,4)		RthJ∟ Btb I	1		°C/W	

		_	
N	At A		

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

- (2) Measured at 1.0MHz and applied reverse voltage of 4.0 VDC
- (3) Thermal Resistance test performed in accordance with JESD-51.

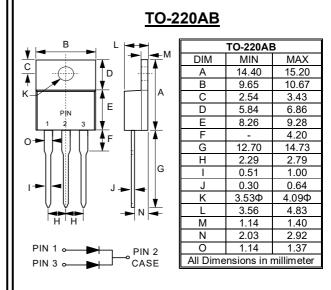
(4) The unit mounted on Copper heatsink (100mm x 100mm x 2mm)

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RthJ_c





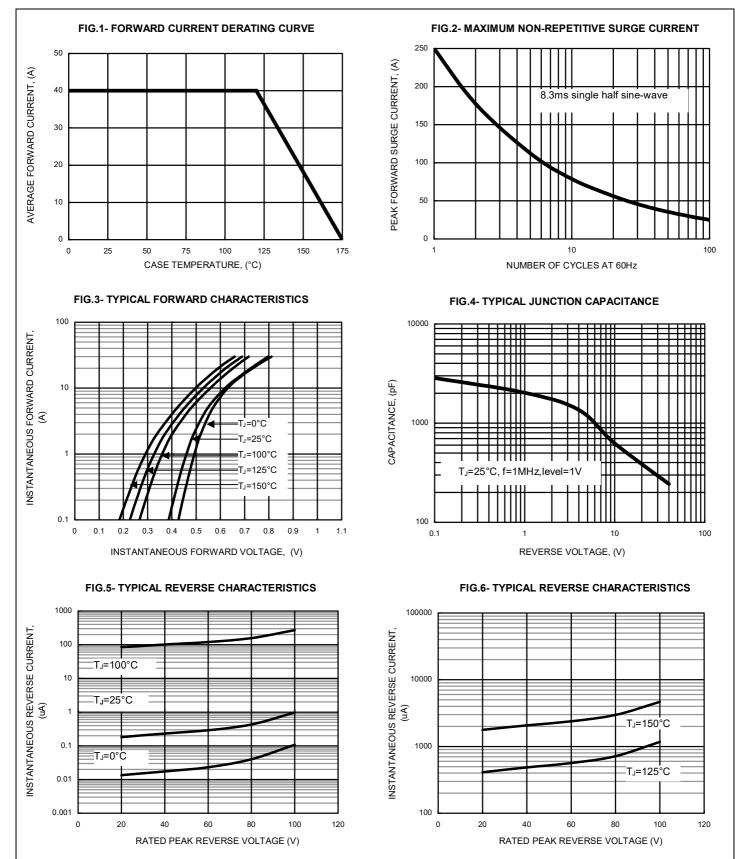


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REV-2, Nov.-2019, KTHC205

RATING AND CHARACTERISTIC CURVES G40H100CTW

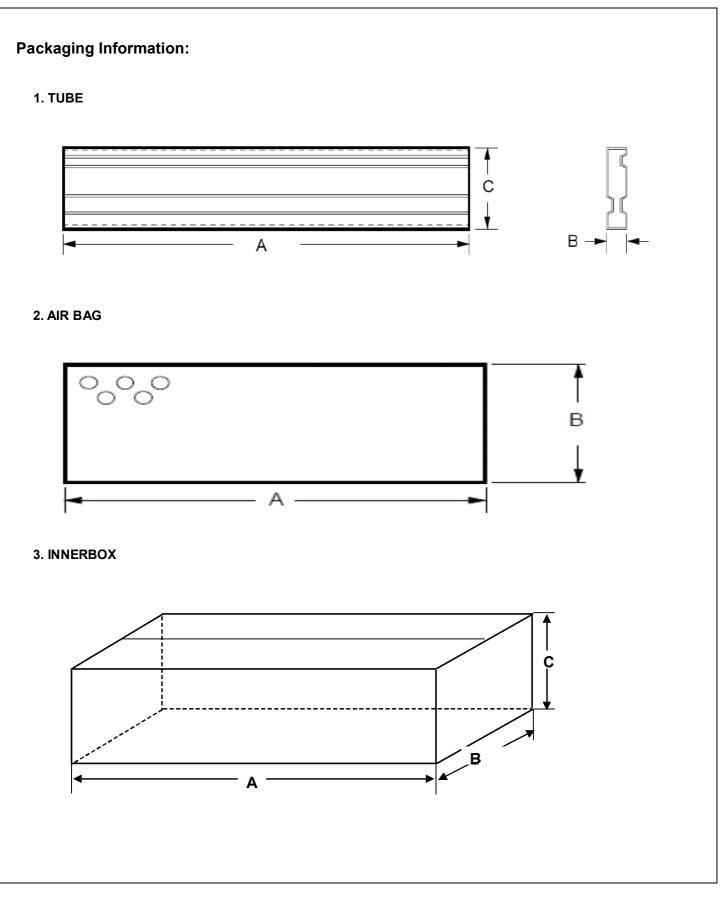
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PACKAGING INFORMATION G40H100CTW

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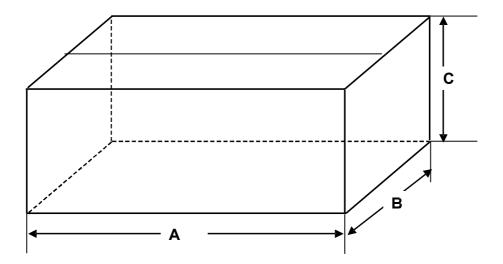


PACKAGING INFORMATION G40H100CTW



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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