LITE-ON LITEON G20H120CTFW SEMICONDUCTOR **REVERSE VOLTAGE** - 120 Volts TRENCH SCHOTTKY RECTIFIER FORWARD CURRENT - 20 Amperes **FEATURES** ITO-220(S)AB(WB) · High junction temperature capability Negligible switching losses ITO-220(S)AB · Good trade off between leakage current and forward DIM MIN MAX voltage drop 14.95 15.95 Α • Qualification is according to AEC-Q101 Rev_D 10.00 10.40 в С 2.76 3.36 8.50 D 8.80 **APPLICATION** Ε 2.10 2.50 • High frequency miniature switch mode of adaptors F 13.00 13.70 On-board DC-DC converters PIN 1.37 G 1.15 • Use in high frequency inverters Н 2.70 2.40 1 0.50 0.80 1 0.45 0.70 **MECHANICAL DATA** Κ 3.00 3.30 Case: JEDEC TO-220ABFP 4 4 6 4 87 Т Case Material: "Green" Molding compound, UL Μ 2.48 2.80 flammability classification 94V-0,"Halogen-free". Ν 2.50 2.80 · Lead free finish, RoHS compliant All dimension in millimeter · Polarity : As marked on body PIN 1 o Marking code: G20H120CTFW • PIN 2 • Weight: 0.05 ounces, 1.558 grams (Approximate) PIN 3 o

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER			SYMBOL	V۵I	VALUE	
Maximum repetitive peak reverse voltage			V _{RRM}	120		
Maximum DC blocking voltage			V _{DC}	120		V
Maximum Average rectified forward current @Tc =130°C		@Tc =130°C	lav	20		A
Peak forward surge 8.3ms single half sine-wave superimposed on rated load			I _{FSM}	280		А
Non repetitive peak reverse current		@tp=2uS	I _{RSM}	3		
Operating Junction and Storage temperature range		TJ, Tstg	-55 ~ +175		°C	
STATIC ELECTRICAL	CHARACTER	RISTICS	·			
PARAMETER	TEST CONDITION		SYMBOL	ТҮР	MAX	UNIT
Forward voltage (Note 1)	I _F = 10A	T」= 25°C T」= 125°C	V _F	 0.63	0.83	V
Reverse leakage current	V _R = 120V	T」= 25°C T」= 125°C	I _R	 0.6	4 5	uA mA
Typical junction capacitance (Note 2)		CJ	770		pF	
THERMAL CHARACT	ERISTICS					
PARAMETER			SYMBOL	ТҮР		UNIT
Typical thermal resistance (Note 3,4)		RthJ∟		3		
		RthJc		3		

REV.- 1, Nov.-2019, KTHC209

(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 Aluminum plate 15mm x 12mm x 1.62mm and copper heatsink 75mm*75mm*1.8mm

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RATING AND CHARACTERISTIC CURVES G20H120CTFW

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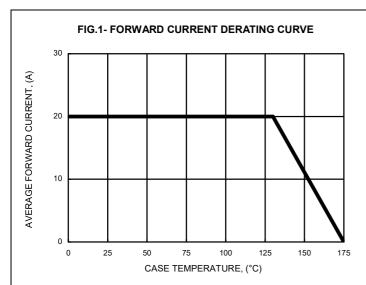


FIG.3- TYPICAL FORWARD CHARACTERISTICS

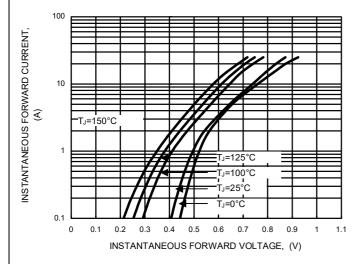
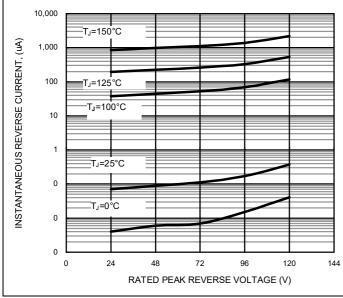


FIG.5- TYPICAL REVERSE CHARACTERISTICS



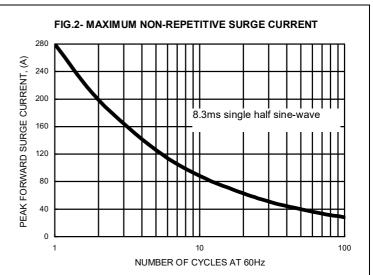
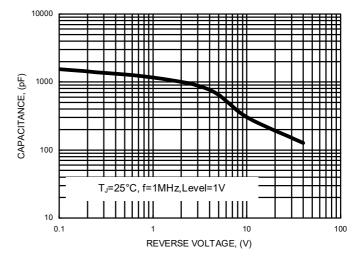
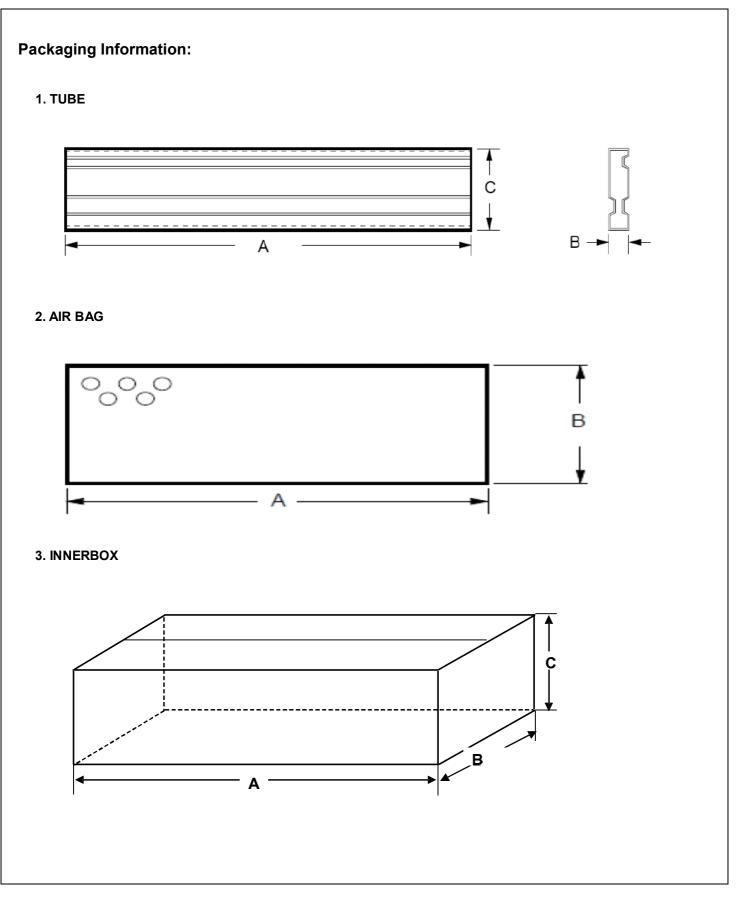


FIG.4- TYPICAL JUNCTION CAPACITANCE



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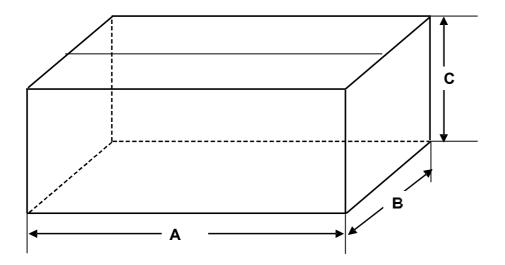
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PACKAGING INFORMATION G20H120CTFW



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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