

G20C100CVW

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 100 Volts FORWARD CURRENT - 20 Amperes

FEATURES

- · High efficiency
- Reduced high temperature reverse leakage
- Reduced ultra-low forward voltage drop
- Qualified 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: G20C100CVW

TO-220AB(V) B O N PIN 1 o PIN 3 o PIN 2

TO-220AB(V)					
DIM	MIN	MAX			
Α	14.40	15.20			
В	9.65	10.67			
C	2.54	3.43			
D	5.84	6.86			
Ш	8.26	9.28			
F	-	4.20			
G	12.70	14.73			
Н	2.29	2.79			
_	0.51	1.14			
J	0.40	0.64			
K	3.53Ф	4.09Ф			
L	3.56	4.83			
М	1.14	1.40			
N	2.03	2.92			
0	1.14	1.70			
All Dimensions in millimeter					

REV.-1, Dec -2020, KTHC215

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise 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 =105°C	I _(AV)	20	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	150	Α
Non repetitive peak reverse current	@tp=2uS	I _{RSM}	3	Α
Operating junction and Storage Temperature range		T _{J,} T _{STG}	-55 ~ + 150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST C	TEST CONDITIONS		TYP	MAX	UNIT
Forward voltage (Note1)	I _F =10A	T _J =25°C T _J =125°C	V_{F}	 0.68	0.80 0.75	V
Leakage current	V _R =100V	T _J =25°C T _J =125°C	I _R	 3.3	100 15	uA mA

DYNAMIC ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
Typical junction capacitance (Note 2)	CJ	440	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP	UNIT
Typical thermal resistance (Note 3,4)	RthJ _C	3	°C/W
Typical thermal resistance (Note 5,4)	RthJ∟	2	C/VV

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

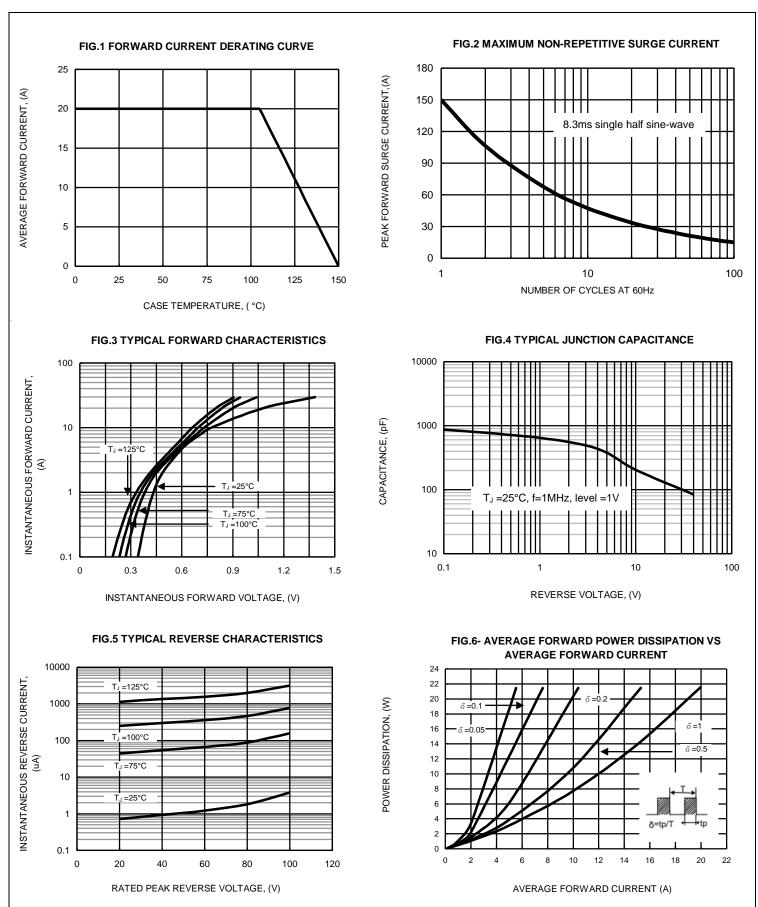
Note:

- (2) Measured at 1.0MHz and applied reverse voltage of 4.0 VDC
- (3) The unit mounted on copper heatsink (75mm x 75mm x 2mm)
- (4) 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.

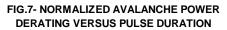
RATING AND CHARACTERISTIC CURVES G20C100CVW

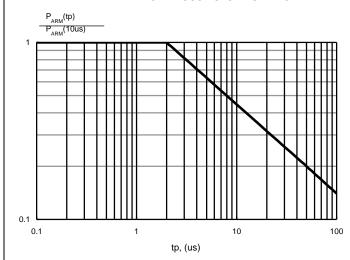




RATING AND CHARACTERISTIC CURVES G20C100CVW



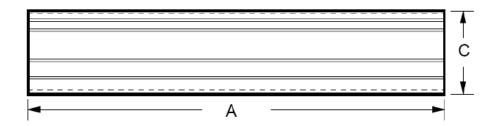


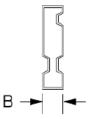




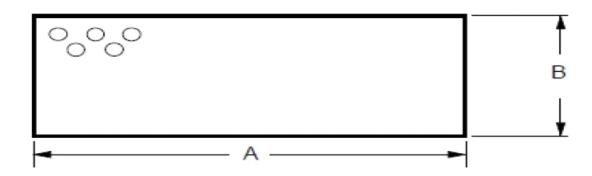
Packaging Information:

1. TUBE

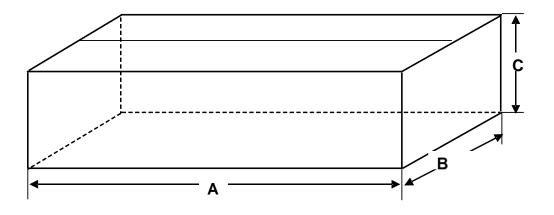




2. AIR BAG



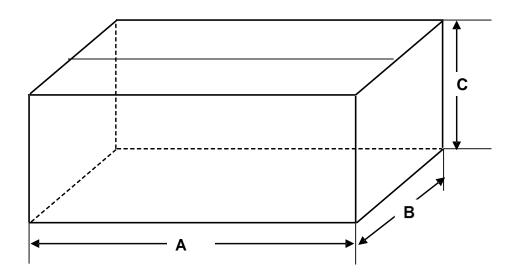
3. INNERBOX





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



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.

ALL INFORMATION ARE PROVIDED AS-IS, EVEN IT HAS QUALIFIED BY THE AEC-Q101 WHICH SATISFY INDUSTRIAL APPLICATION REQUIREMENT, EXCEPT AS EXPRESSLY STATED IN THIS DATA SHEET IS APPLIED FOR AUTOMOTIVE GRADE, LSC MAKE NO WARRANTIES, REPRESENTATION OR GUARANTEE, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING, WITHOUT LIMITATION, REGARDING ANY MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE LSC TECHNOLOGY.

LSC DOES NOT ASSUME ANY LIABILITY OR COMPENSATION FOR ANY APPLICATION ASSISTANCE OR CUSTOMER PRODUCT DESIGN, AND MAKE NO WARRANTY 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.