

G10H150CTW

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 150 Volts FORWARD CURRENT - 10 Amperes

FEATURES

- Super Low Forward Voltage Drop
- Reliable High Temperature Operation
- · Softest, fast switching capability
- Qualified according to AEC-Q101 Rev_D

APPLICATION

 Device optimized for ultra-low forward voltage drop to maximize efficiency in Power Supply application

MECHANICAL DATA

- · Case: TO-220AB molded plastic
- Case Material: "Green" Molding compound, UL flammability classification 94V-0,"Halogen-free".
- · Lead free finish, RoHS compliant
- · Polarity: As marked on body
- Marking code: G10H150CTW
- Weight: 1.927 grams (Approximate)

TO-220AB				
DIM	MIN	MAX		
Α	14.40	15.20		
В	9.65	10.67		
С	2.54	3.43		
D	5.84	6.86		
Е	8.26	9.28		
F	-	4.20		
G	12.70	14.73		
Н	2.29	2.79		
ı	0.51	1.00		
J	0.30	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	1.37		
All Dimensions in millimeter				

REV- 1, Jan.-2021, KTHC237

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER	SYM	BOL	VALUE	
Maximum repetitive peak reverse voltage		RM	150	V
Maximum DC blocking voltage		ос	150	
Maximum Average rectified forward current @To	:= 140°C	v	10	Α
Peak forward surge 8.3ms single half sine-wave superimposed on rated load		SM	180	Α
Operating and Storage temperature range		STG	-55 ~ +175	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		PARAMETER TEST CONDITION SYMBOL		TYP	MAX	UNIT
Forward voltage (Note 1)	I _F = 5A	$T_J = 25^{\circ}C$	Ve		0.79	V	
1 of ward voltage (14ote 1)		T _J = 125°C	v _F		0.63		
Reverse leakage current	$V_R = 150V$	$T_J = 25^{\circ}C$	l _{I-}		8	uA	
	VR = 130V T ₁ = 125°C	iR.	0.4	10	mΔ		

DYNAMIC ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
Typical junction capacitance (Note 2)	C,J	540	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP	UNIT
Typical thermal resistance (Note 3,4)	$RthJ_L$	7	°C/W
Typical thermal resistance (Note 5,4)	$RthJ_C$	5	O/ VV

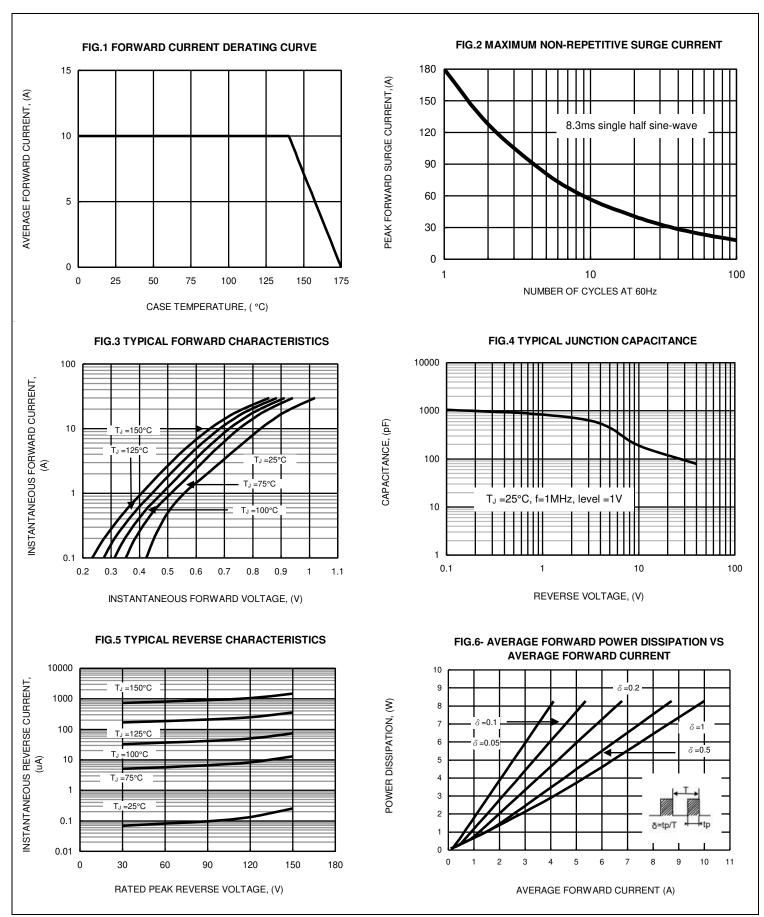
Note:

- (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 Al plant Heatsink (15mm x 36mm x 1.65mm)

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.

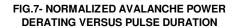
RATING AND CHARACTERISTIC CURVES G10H150CTW

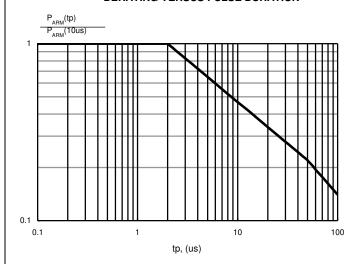




RATING AND CHARACTERISTIC CURVES G10H150CTW

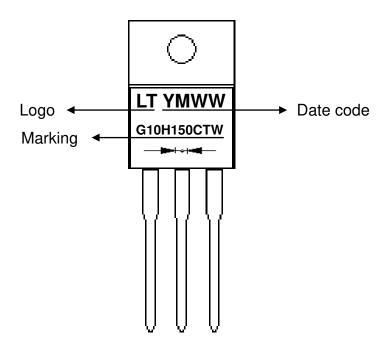








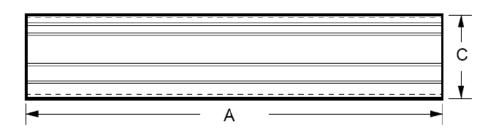
Marking information:

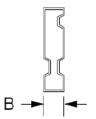




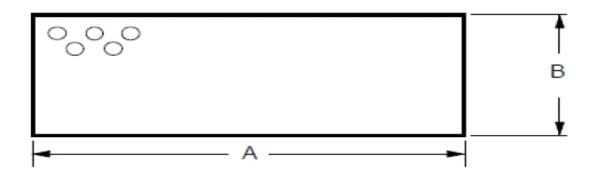
Packaging Information:

1. TUBE

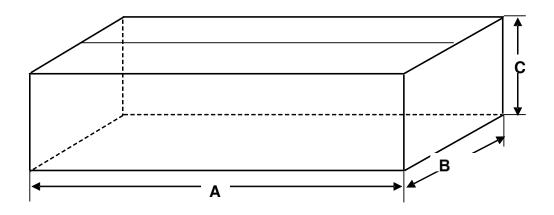




2. AIR BAG



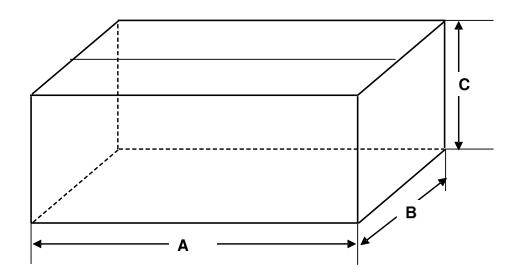
3. INNERBOX





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	/
AIR BAG	800	550	/	/	/
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.