

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE – 150 Volts
FORWARD CURRENT – 30 Amperes

FEATURES

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

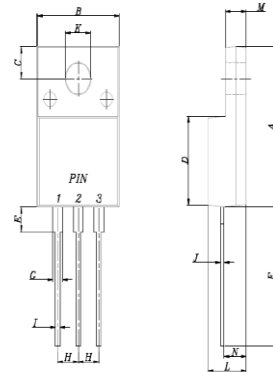
APPLICATIONS

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

MECHANICAL DATA

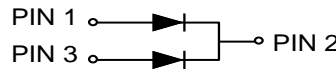
- Case: JEDEC TO-220ABFP
- Case Material: "Green" Molding compound, UL flammability classification 94V-0, "Halogen-free".
- Lead free finish, RoHS compliant
- Marking code: G30H150CTFW
- Polarity indicator: As marked on the body
- Weight: 1.558 grams (Approximate)

ITO-220(S)AB



ITO-220(S)AB		
DIM	MIN	MAX
A	14.95	15.95
B	10.00	10.40
C	2.76	3.36
D	8.50	8.80
E	2.10	2.50
F	13.00	13.70
G	1.15	1.37
H	2.40	2.70
I	0.50	0.80
J	0.45	0.70
K	3.00	3.30
L	4.46	4.87
M	2.48	2.80
N	2.50	2.80

All dimension in millimeter



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}	150	V
Maximum DC blocking voltage	V _{DC}	150	V
Maximum Average rectified forward current	I _{AV}	30	A
Peak forward surge 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	250	A
Operating and Storage temperature range	T _J , T _{STG}	-55 ~ +175	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION	SYMBOL	TYP	MAX	UNIT
Forward voltage (Note 1)	I _F = 15A T _J = 25°C T _J = 125°C	V _F	-- 0.71	0.88 0.74	V
Reverse leakage current	V _R = 150V T _J = 25°C T _J = 125°C	I _R	-- 0.6	8 10	uA mA

DYNAMIC ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP	UNIT
Typical junction capacitance (Note 2)	C _J	840	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP	UNIT
Typical thermal resistance (Note 3,4)	R _{thJL} R _{thJc}	3 6	°C/W

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 Copper heatsink (200mm x 200mm x 10mm) in free air condition

REV-0, Oct-2020, KTHC243

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FIG.1- FORWARD CURRENT DERATING CURVE

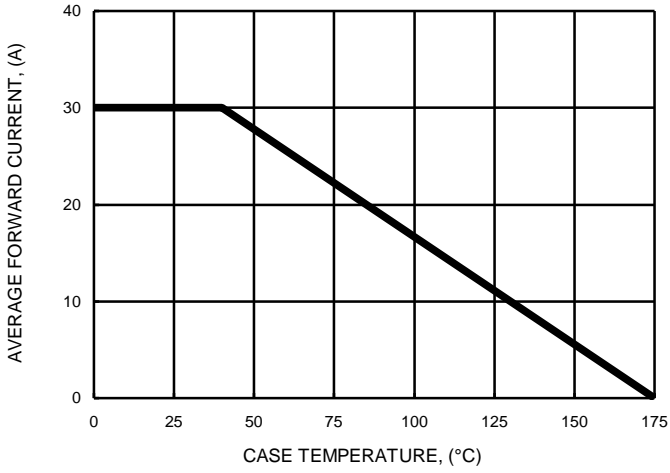


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

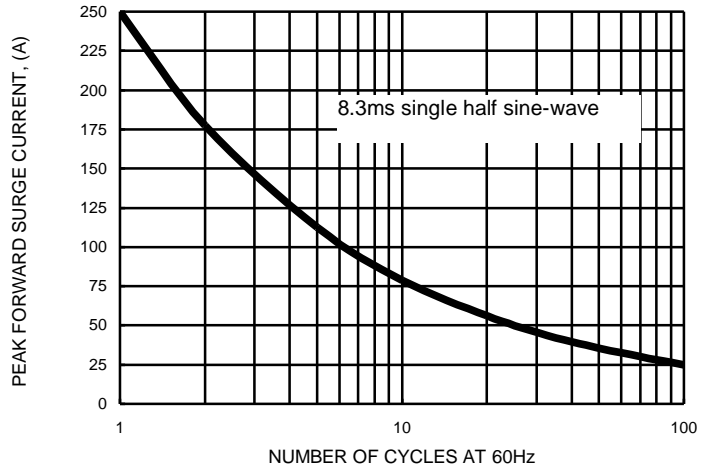


FIG.3- TYPICAL FORWARD CHARACTERISTICS

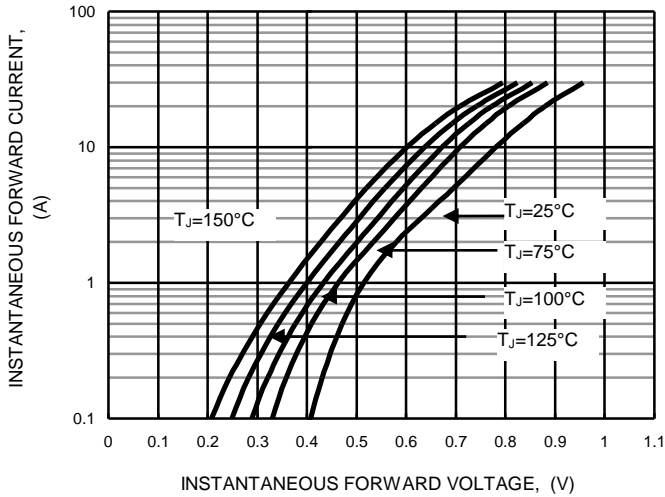


FIG.4- TYPICAL JUNCTION CAPACITANCE

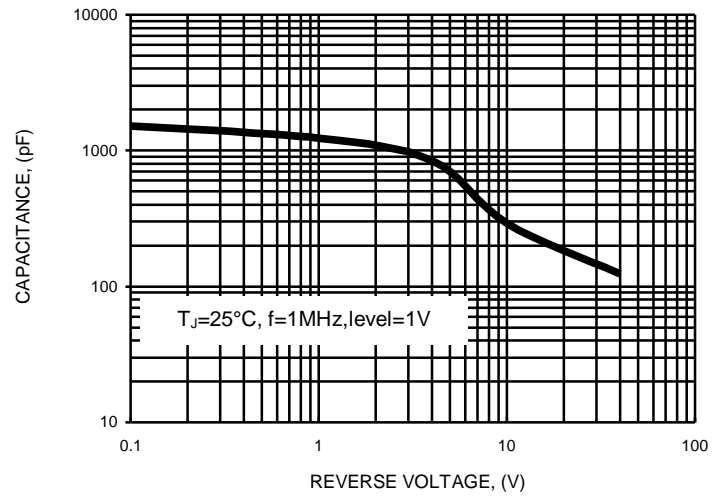


FIG.5- TYPICAL REVERSE CHARACTERISTICS

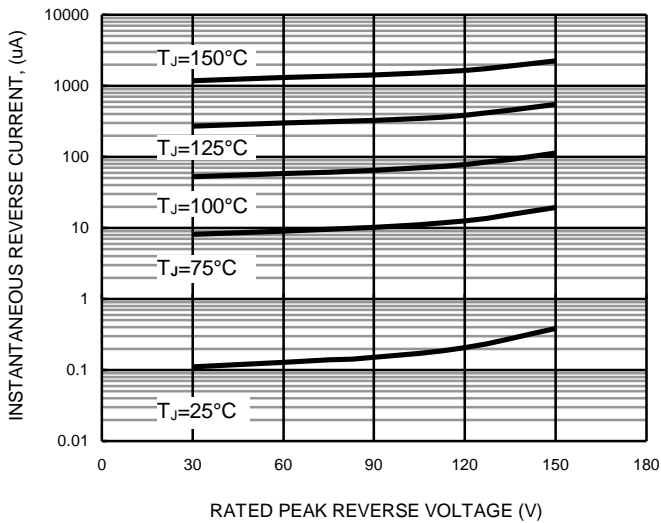


FIG.6- AVERAGE FORWARD POWER DISSIPATION VS AVERAGE FORWARD CURRENT

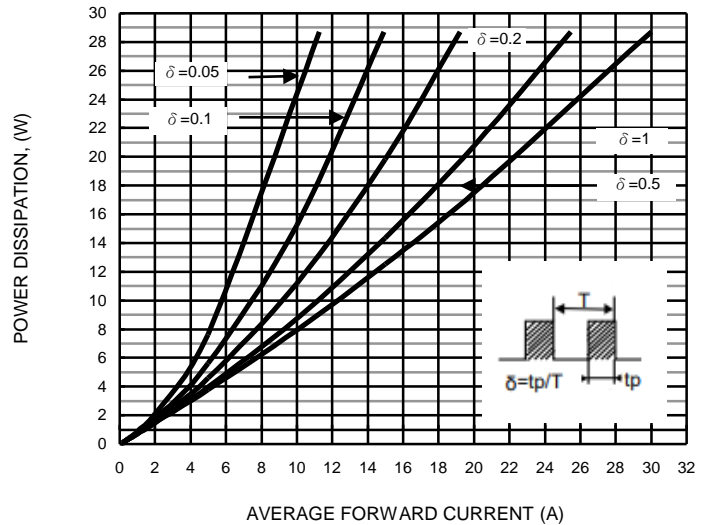
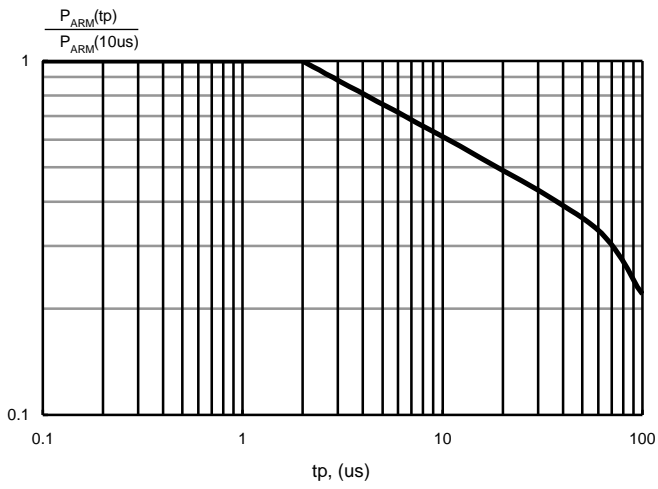
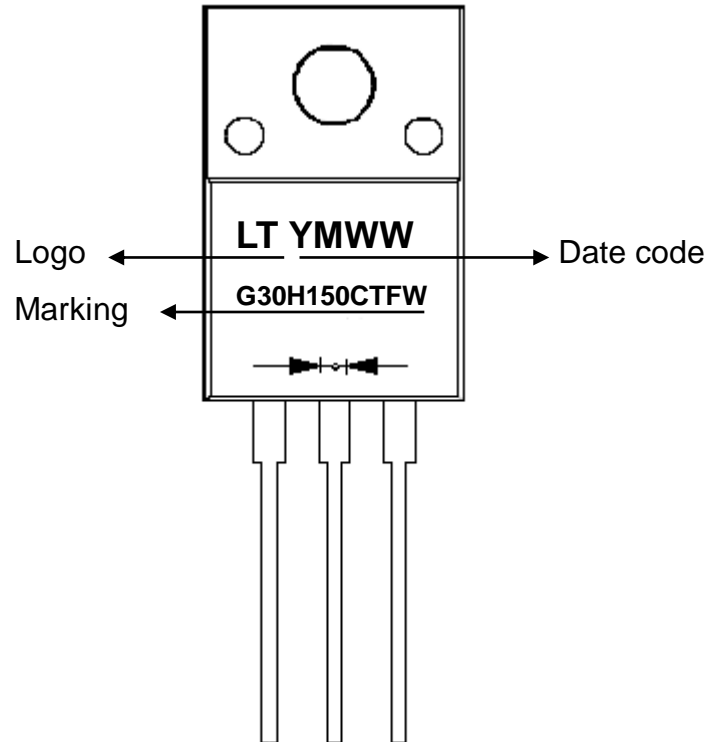


FIG.7- NORMALIZED AVALANCHE POWER
DERATING VERSUS PULSE DURATION

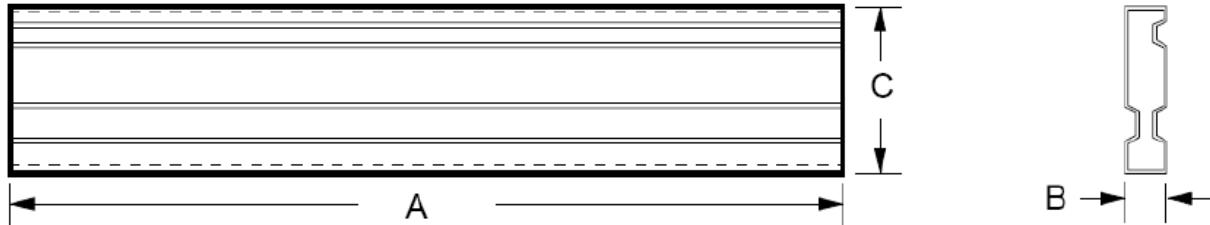


Marking information:

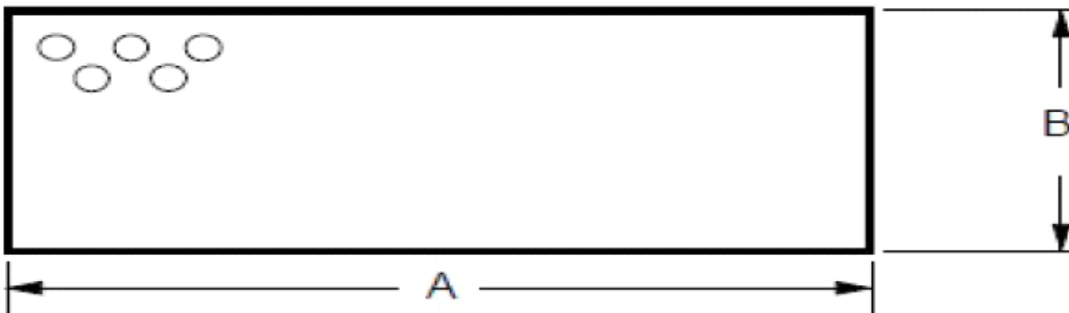


Packaging Information:

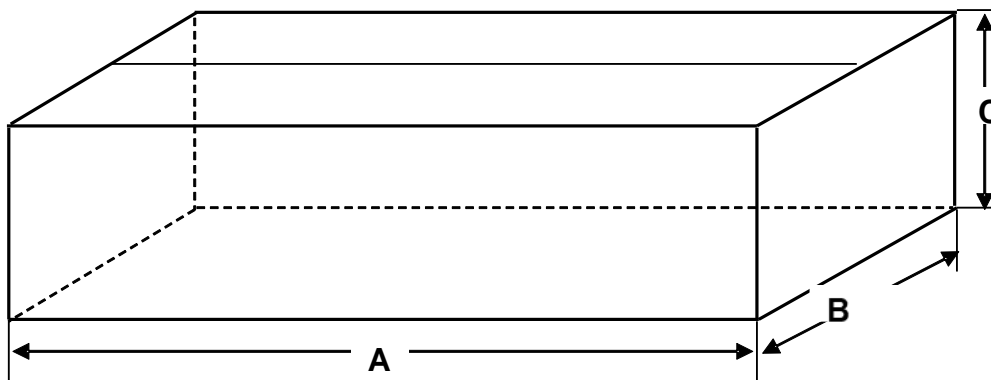
1. TUBE



2. AIR BAG

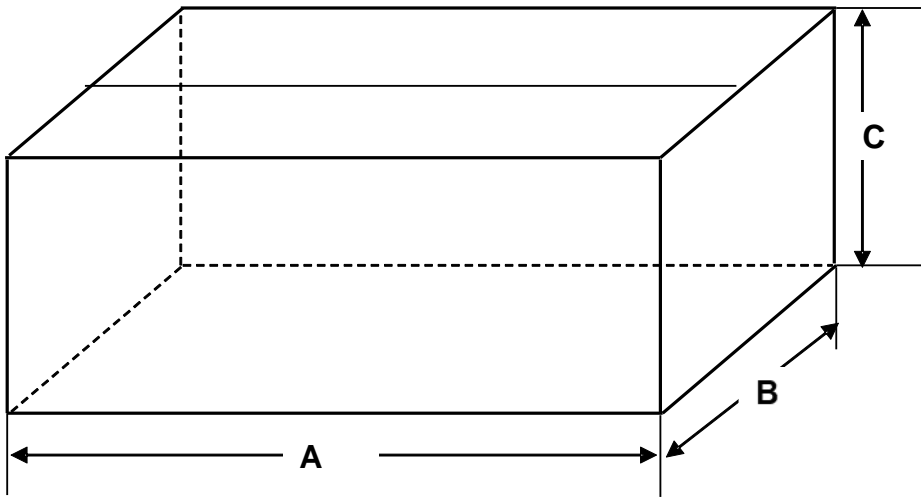


3. INNERBOX



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

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