G30H100CTW

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 100 Volts FORWARD CURRENT - 30 Amperes

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
- · Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

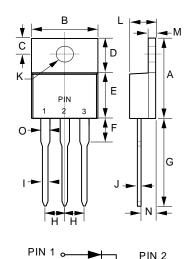
APPLICATION

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

MECHANICAL DATA

- Package: JEDEC TO-220AB
- Package Material: "Green" molding compound, UL flammability classification 94V-0, "Halogen-free"
- · Lead Free Finish, RoHS Compliant
- · Polarity: As marked on the body
- · Weight: 0.07 ounces, 1.927grams(Approximate)
- Marking code: G30H100CTW

TO-220AB



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		
I	0.51	1.00		
J	0.30	0.64		
K	3.53Ф	4.09Ф		
L	3.56	4.83		
M	1.14	1.40		
N	2.03	2.92		
0	1.14	1.37		
All Dimensions in millimeter				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

ABSOLUTE RATING

7.200201211111110				
PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	100	V
Maximum DC blocking voltage		V_{DC}	100	V
Maximum Average rectified forward current	@Tc = 150°C	I(_{AV)}	30	^
Non repetitive peak reverse current	@ tp=2us	I _{RSM}	3	A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	FSM 280	
Operating & Storage temperature range		$T_{J_i} T_{STG}$	-55 ~ +175	°C

STATIC ELECTRICAL CHARACTERISTICS

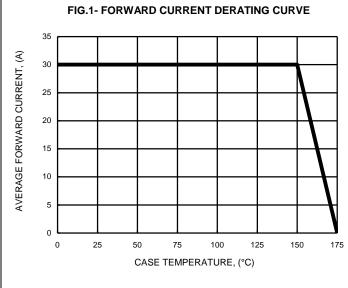
PARAMETER	TEST C	TEST CONDITION		TYP	MAX	UNIT
Forward voltage (Note 4)	I _F = 15A	T _J = 25°C T _J = 125°C	V _F	 0.63	0.79 0.66	V
Reverse leakage current	V _R = 100V	T _J = 25°C T _J = 125°C	I _R	 1.2	5 5	uA mA
Typical junction capacitance (Note 5)		C₃	1040		pF	

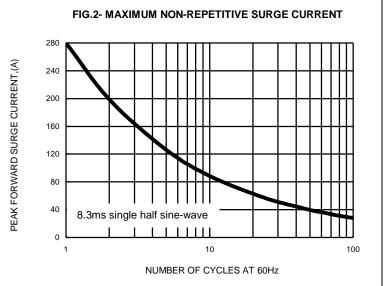
THERMAL CHARACTERISTICS

THE RUIN RESIDENCE OF					
PARAMETER	SYMBOL	TYP	UNIT		
Typical thermal resistance (Note 6,7)	$RthJ_L$	1	°C/W		
	RthJc	1	C/VV		

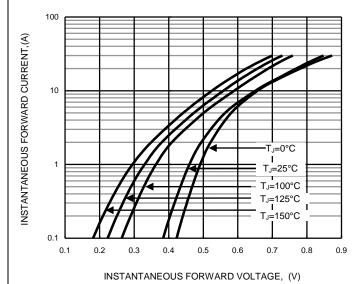
Note:

- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. 300us pulse width, 2% duty cycle.
- 5. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 6. Thermal resistance test performed in accordance with JESD-51.
- 7. The mounted on Copper heatsink (75 mm x 75 mm x 2 mm).











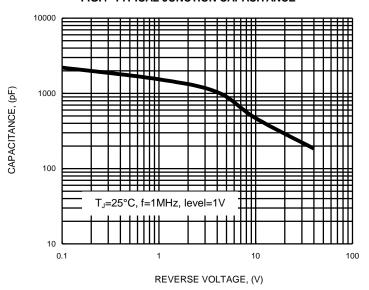
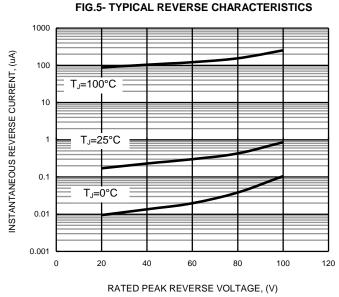
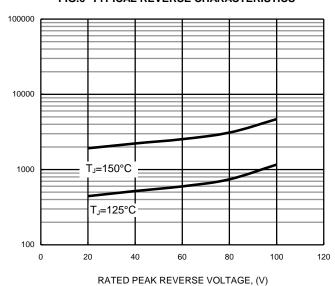


FIG. F. TVDIGAL DEVEROE GUARAGTERIOTIOS







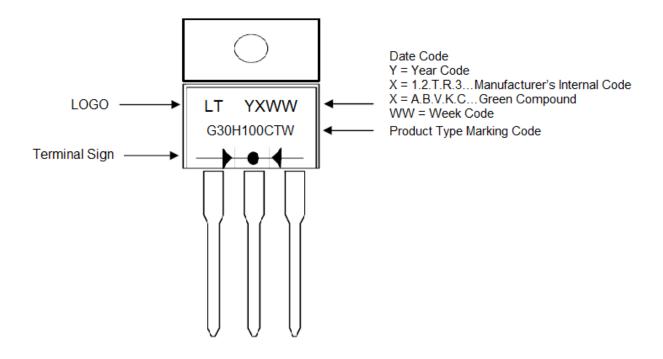
INSTANTANEOUS REVERSE CURRENT, (uA)



Ordering Information:

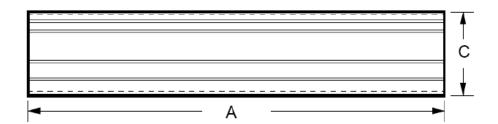
Dart Number	Pookogo	Packing		
Part Number	Package	Qty.	Carrier	
G30H100CTW	TO-220AB	50pcs	Tube	

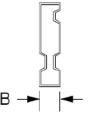
Marking Information:



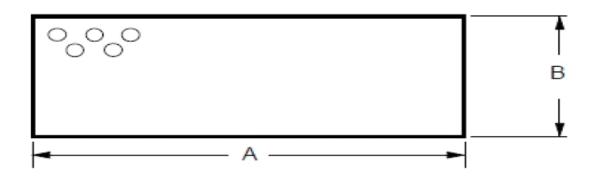
Packaging Information:

1. TUBE

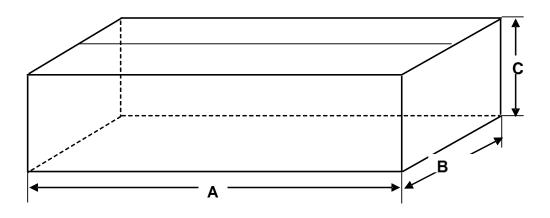




2. AIR BAG

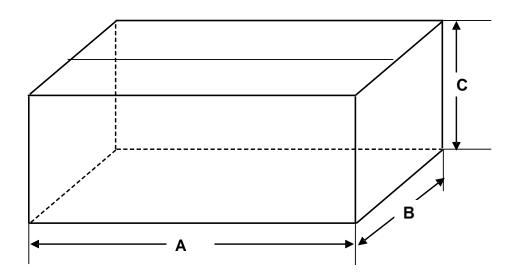


3. INNERBOX



Packaging Information (continued):

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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