

G3060CTW

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 60 Volts FORWARD CURRENT - 30 Amperes

TO-220AB

FEATURES

- Trench Schottky technology
- Low power loss, high efficiency
- · Low forward drop voltage
- Qualified according to AEC-Q101 Rev_C
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

MECHANICAL DATA

- Package: TO-220AB molded plastic
- Package Material: "Green" Molding compound, UL flammability classification 94V-0, "Halogen-free"
- Maximum mounting torque = 0.5N.m (5.1Kgf.cm)
- Polarity: As marked on body
- Marking Position: Any
- Weight: 0.067 ounces, 1.927 grams (Approximate)
- Marking Code: G3060CTW

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		
М	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 RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	60	V
Maximum DC blocking voltage		V_{DC}	60	V
Maximum average rectified forward current	@Tc = 115°C	I _{AV}	30	Α
Peak forward surge 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	250	А
Operating and storage temperature range		T _J , T _{STG}	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST C	ONDITION	SYMBOL	TYP	MAX	UNIT
Forward voltage (Note 4)	I _F = 15A	T _J = 25°C T _J = 125°C	V _F	0.54 0.50	0.58 0.55	V
Reverse leakage current	V _R = 60V	T _J = 25°C T _J = 125°C	I _R	 15.1	500 55	uA mA
Typical junction capacitance (Note 5)		C _J	950		pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note 6)	RthJ _C	2	°C/W

Notes:

- 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 4.0 VDC.
- 6. Thermal Resistance test performed in accordance with JESD-51.



RATING AND CHARACTERISTIC CURVES C3060CTW

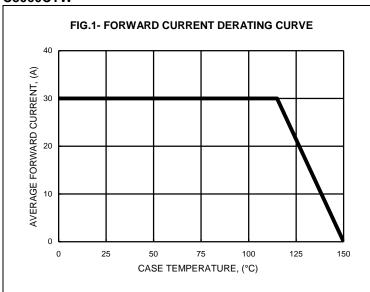
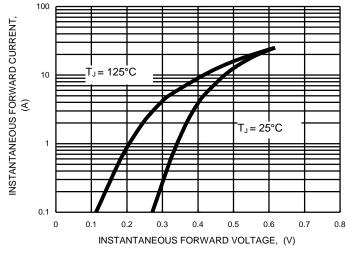
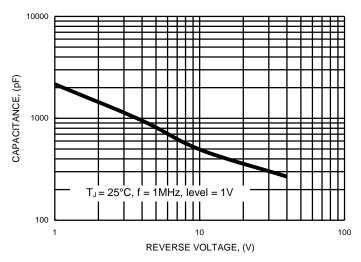


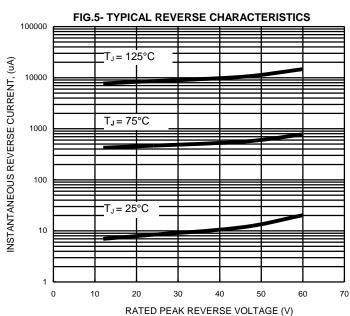
FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT 250 200 150 8.3ms single half sine-wave 1 100 NUMBER OF CYCLES AT 60Hz









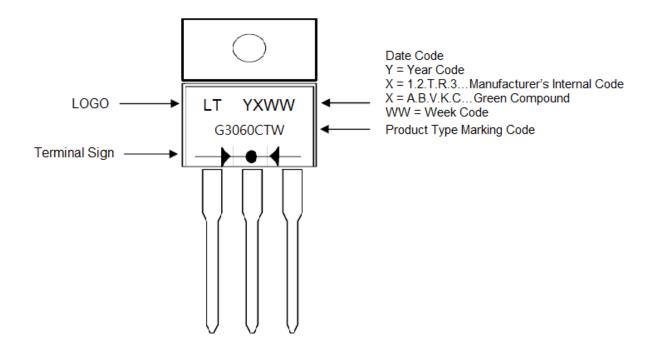




Ordering Information:

Part Number	Packago	Packing		
	Package	Qty.	Carrier	
G3060CTW	TO-220AB	50 pcs	Tube	

Marking Information:



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