



A Product Line of Diodes Incorporated

REVERSE VOLTAGE

FORWARD CURRENT

G2060CTW

- 60 Volts

TO-220AB

- 20 Amperes

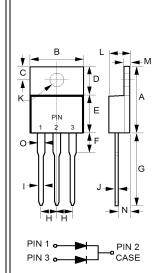
TRENCH SCHOTTKY RECTIFIER

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"
- Terminals: Matte Tin
- Polarity: As marked on the body
- Weight: 0.072 ounces, 2.0275 grams (Approximate)
- Mounting Position: Any



TO-220AB				
DIM MIN MAX				
А	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		
	0.51	1.00		
J	0.30	0.64		
Κ	3.53Ф	4.09Φ		
L	3.56	4.83		
М	1.14	1.40		
Ν	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	Vrrm	60	V
Maximum DC Blocking Voltage	VDC	60	V
Average Rectified Output Current per Device @Tc=120°C	lF	20	А
Non-Repetitive Peak Forward Surge Current Single Half Sine-Wave tp=8.3ms	IFSM	200	A
Operating Junction and Storage Temperature Range	TJ, TSTG	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

Parameter	Test Condition	Symbol	Тур.	Max.	Unit
Maximum Forward Voltage (Note 4)	@T _j =25°C	VF	0.50	0.57	V
Maximum Forward Voltage (Note 4)	IF=10A @T _i =125°C	VF	0.47	0.52	v
Maximum DC Reverse Current	(v co) (@T _i =25°C	1-	-	0.25	mA
Maximum DC Reverse Current	V _R =60V @T _j =125°C	IR	-	30	IIIA
Junction Capacitance per Element	f=1MHz, V _R =4V	Cj	760	-	pF

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Unit
	R⊖JC	2.0	
Typical Thermal Resistance Junction (Notes 5 & 6)	R⊖JL	3.0	°C/W
	R⊖ja	15	

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. Thermal Resistance Junction to Case. Lead and Ambient.

6. Device mounted on 60 x 60 x 1.5mm Copper plate.

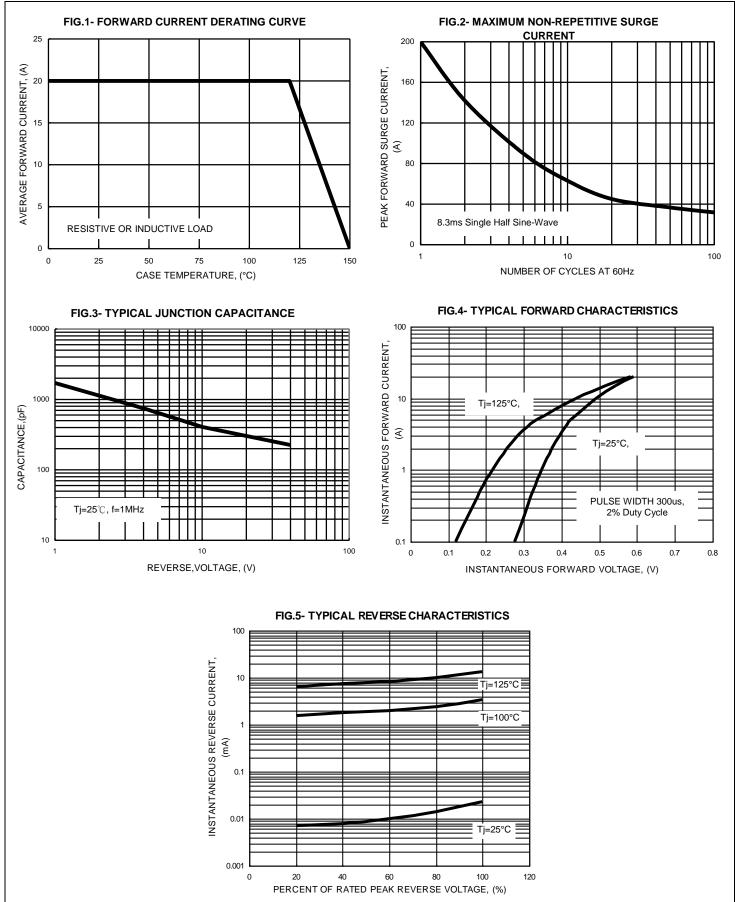
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RATING AND CHARACTERISTIC CURVES G2060CTW

LITE-ON SEMICONDUCTOR

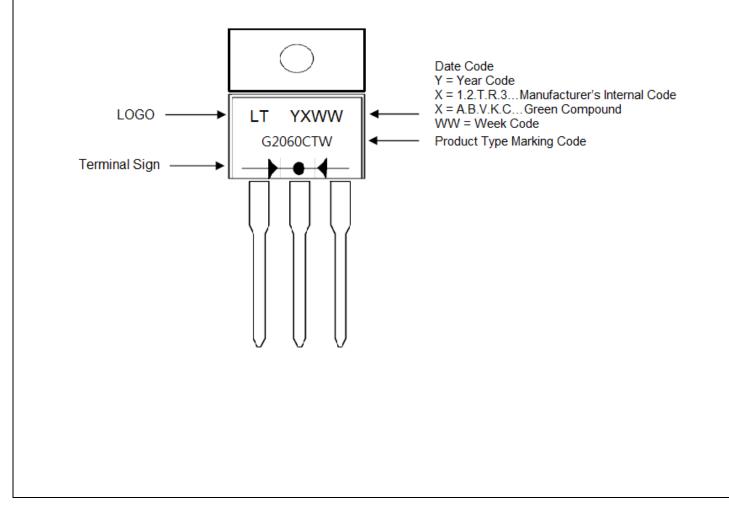




Ordering Information:

Part Number	Pookago	Packing		
	Package	Qty.	Carrier	
G2060CTW	TO-220AB	50 pcs	Tube	

Marking Information:





LITE-ON SEMICONDUCTOR

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