

# **G3060CTFW**

#### TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 60 Volts FORWARD CURRENT - 30 Amperes

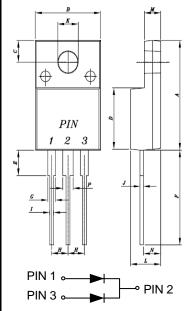
#### **FEATURES**

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

#### **MECHANICAL DATA**

- Package: ITO-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: 0.05 ounces, 1.558 grams (Approximate)
- Marking Code: G3060CTFW

# ITO-220AB(WB)



ITO-220AB(WB)				
DIM	MIN MAX			
Α	14.95	15.95		
В	10.00	10.40		
С	2.76	3.36		
D	8.50	8.80		
E	3.30	3.90		
F	13.0	13.70		
G	1.15	1.70		
Н	2.40	2.70		
I	0.50	0.80		
J	0.45	0.70		
K	3.00	3.30		
L	4.46	4.87		
М	2.48	2.80		
N	2.50	2.80		
Р	1.50	1.90		
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		$V_{RRM}$	60	V	
Maximum DC blocking voltage		V <sub>DC</sub>	60	V	
Maximum average rectified forward current	@Tc = 130°C	I <sub>AV</sub>	30	Α	
Peak forward surge 8.3ms single half sine-wave superimposed on rated load		I <sub>FSM</sub>	250	Α	
Operating and storage temperature range		T <sub>J</sub> , T <sub>STG</sub>	-55 to +150	°C	

#### STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		SYMBOL	TYP	MAX	UNIT
Forward voltage (Note 4)	I <sub>F</sub> = 15A	$T_J = 25^{\circ}C$	VF	0.53	0.58	V
1 of ward voltage (140te 4)	IF = 1071	$T_J = 125^{\circ}C$	V F	0.49	0.55	•
Reverse leakage current $V_R = 6$	V <sub>R</sub> = 60V	$T_J = 25^{\circ}C$	I <sub>R</sub>		500	uA
	V R - 00 V	$T_{J} = 125^{\circ}C$			55	mA
Typical junction capacitance (Note 5)		CJ	950		pF	

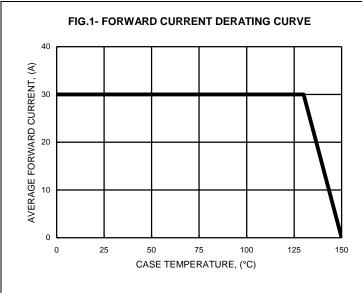
#### THERMAL CHARACTERISTICS

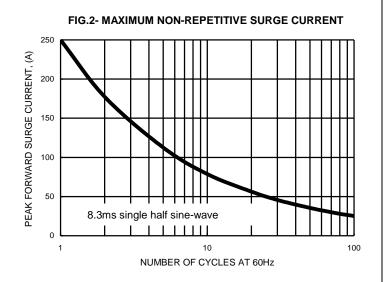
PARAMETER	SYMBOL	ТҮР	UNIT		
Typical thermal resistance (Note 6)	RthJc	1	°C/W		

#### Notes:

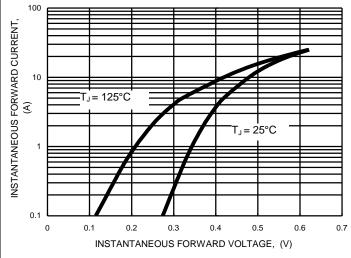
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. 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 G3060CTFW

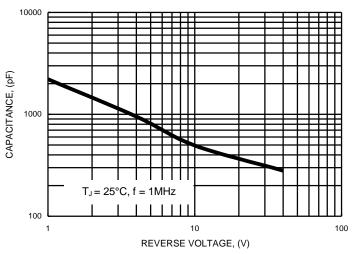


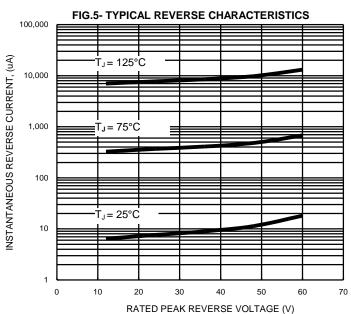










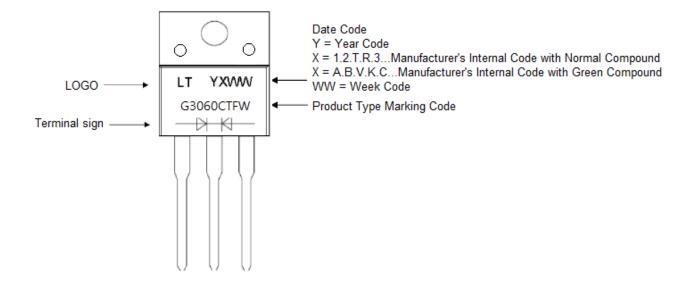




## **Ordering Information:**

Part Number	Package	Packing		
Part Number	гаска <del>уе</del>	Qty.	Carrier	
G3060CTFW	ITO-220AB(WB)	50 pcs	Tube	

### **Marking Information:**



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