



G3060CTFW

TRENCH SCHOTTKY RECTIFIER

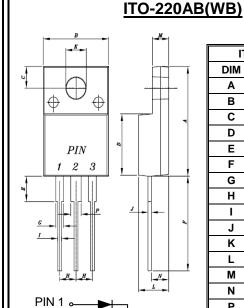
REVERSE VOLTAGE - 60 Volts FORWARD CURRENT - 30 Amperes

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



PIN₂

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		
Е	3.30	3.90		
F	13.0	13.70		
G	1.15	1.70		
Н	2.40	2.70		
ı	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_{DC}	60	V
Maximum average rectified forward current	@Tc = 130°C	I _{AV}	30	Α
Peak forward surge 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	250	Α
Operating and storage temperature range		T_J , T_{STG}	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		SYMBOL	TYP	MAX	UNIT
Forward voltage (Note 4)	I _F = 15A	T _J = 25°C T _J = 125°C	V _F	0.53 0.49	0.58 0.55	V
Reverse leakage current	V _R = 60V	T _J = 25°C	I _R		500	uA
Typical junction capacitance (Note 5) $T_{J} = 125^{\circ}C$		C,j	55 950		Am PG	

THERMAL CHARACTERISTICS

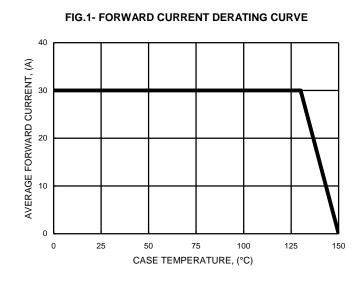
PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note 6)	RthJ _C	1	°C/W

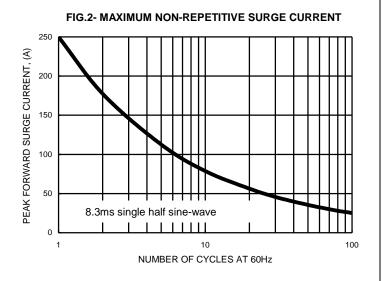
Notes:

- 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.

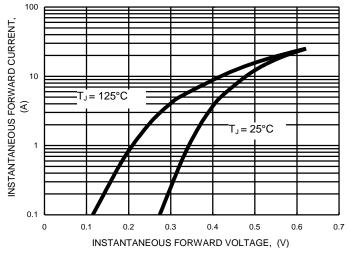


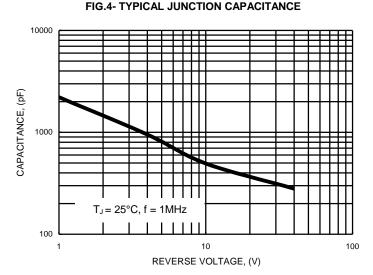
RATING AND CHARACTERISTIC CURVES G3060CTFW

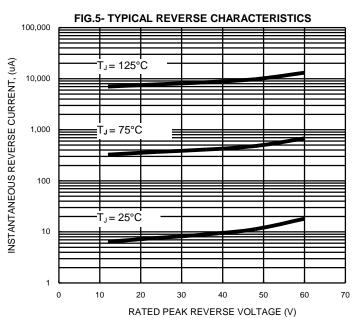










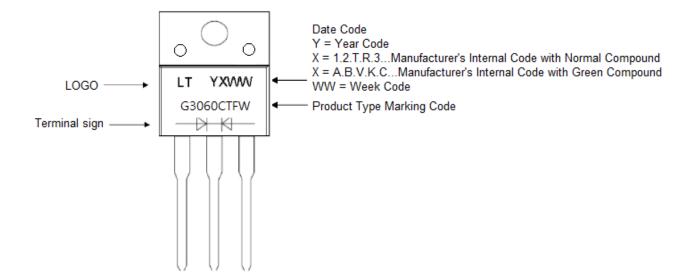




Ordering Information:

Part Number	Packago	Packing		
Fait Number	Package	Qty.	Carrier	
G3060CTFW	ITO-220AB(WB)	50 pcs	Tube	

Marking Information:





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