

G20U100CTFW

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE 100 Volts FORWARD CURRENT - 20 Amperes

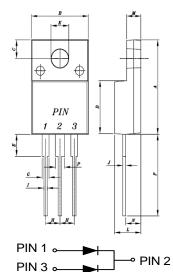
FEATURES

- 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".
- Terminals: Matted tin
- Polarity: As marked on body
- · Marking Position: Any
- Marking Code: G20U100CTFW
- Weight: 0.05 ounces, 1.558 grams (Approximate)

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	
Е	3.30	3.90	
F	13.0	13.7	
G	1.15	1.70	
Н	2.40	2.70	
	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 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}	100	V
Maximum DC blocking voltage		V_{DC}	100	V
Maximum average rectified forward current	@Tc = 110°C	I _{AV}	20	Α
Peak forward surge 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	200	Α
Operating and storage temperature range		T _J , T _{STG}	-55 to +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TES	TEST CONDITION		TYP	MAX	UNIT
Forward voltage (Note 4)	I _F = 5A	$T_J = 25^{\circ}C$ $T_J = 125^{\circ}C$.,	0.49 0.44	 	- V
	I _F = 10A	T _J = 25°C T _J = 125°C	V _F	0.62 0.56	0.64 0.55	
Reverse leakage current	V _R = 100V	T _J = 25°C T _J = 125°C	I _R	 	100 32	uA mA
Typical junction capacitance (Note 5)		CJ	560		pF	

THERMAL CHARACTERISTICS

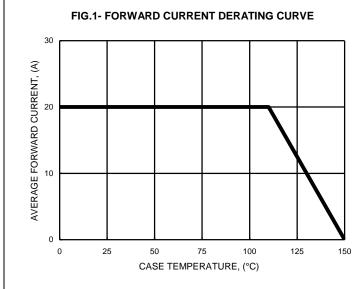
PARAMETER	SYMBOL	ТҮР	UNIT
	RthJ∟	2	
Typical thermal resistance (Notes 6, 7)	RthJ _C	3	°C/W
	$RthJ_A$	15	

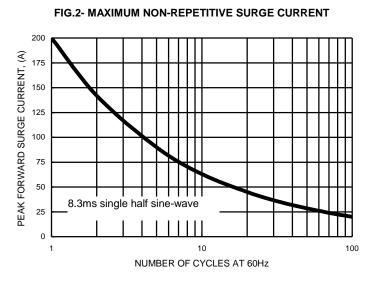
Notes:

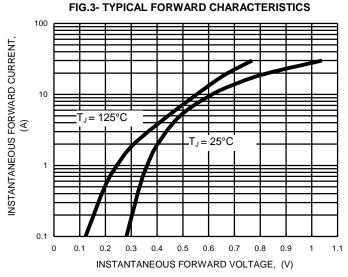
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. 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. Measured at 1.0MHz and applied reverse voltage of 4.0 VDC.
- 6. Thermal Resistance test performed in accordance with JESD-51.
- 7. Device mounted on aluminum fin heatsinks (100.64mm x 75.2mm x 26.83mm).

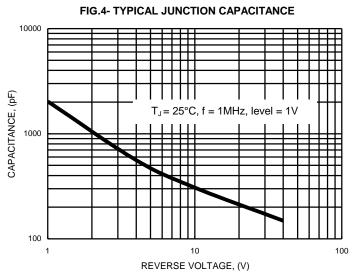


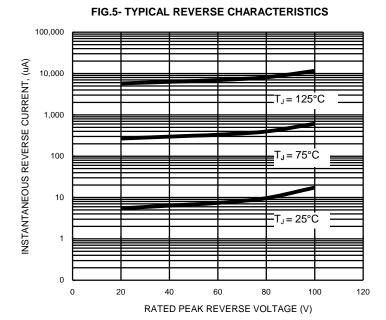
RATING AND CHARACTERISTIC CURVES G20U100CTFW









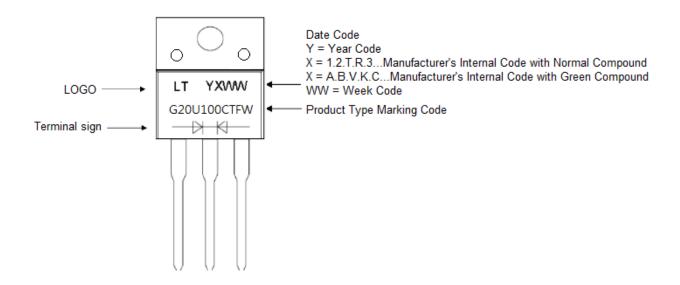




Ordering Information:

Part Number	Packago	Packing		
	Package	Qty.	Carrier	
G20U100CTFW	ITO-220AB(WB)	50 pcs	Tube	

Marking Information:





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