

G20100CTFW

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 to AEC-Q101 Rev_C

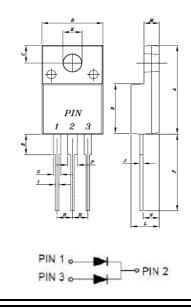
APPLICATION

- For use in low voltage, high frequency inverters, free wheeling
- Polarity protection applications

MECHANICAL DATA

- Case: ITO-220AB molded plastic
- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- Terminals: Matte tin
- · Lead free finish, RoHS compliant
- Polarity: As marked on the body
- Weight: 0.05 ounces, 1.558 grams(Approximate)
- Mounting Position: Any

ITO-220AB(W/B)



ITO-220AB(W/B)				
DIM	MIN	MAX		
Α	14.95	15.70		
В	10.00	10.40		
С	2.76	3.36		
D	8.50	8.80		
Е	3.30	3.80		
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 Dimensions in millimeter				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwis e specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	100	V
Maximum DC blocking voltage		V_{DC}	100	V
Average rectified output current per device	@Tc = 120℃	l _F	20	Α
Peak forward surge current 8.3ms single half sin superimposed on rated load	e-wave	I _{FSM}	150	А
Peak Repetitive Forward Current Per diode (Square Wave, 20KHz, Tc=120℃)		I _{FRM}	20	А
Operating junction and Storage temperature ran	ge	$T_{J,} T_{STG}$	-55 to +150	C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST (CONDITION	SYMBOL	TYP	MAX	UNIT
Forward voltage (Note 1)	I _F = 5A	T _J = 25℃ T _J = 125℃	V _F	0.55 0.50	 	V
	I _F = 10A	T _J = 25℃ T _J = 125℃		 	0.79 0.68	
Leakage current	V _R = 100V	T _J = 25℃ T _J = 125℃	I _R	 	150 25	uA mA
Typical junction capacitance (Note 2)		C _J	430		pF	

THERMAL CHARACTERISTICS

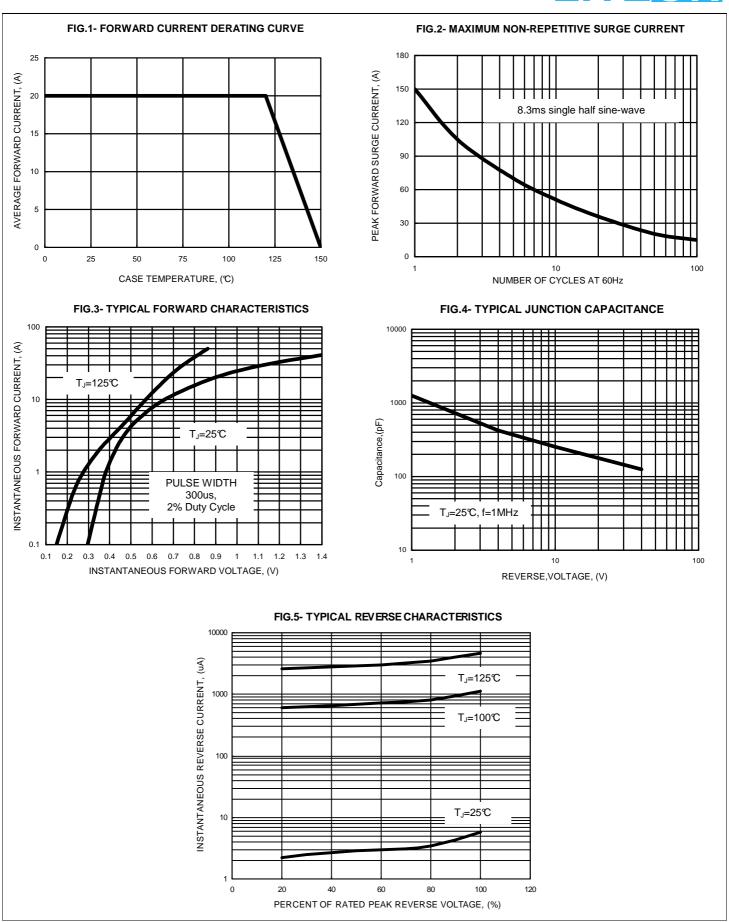
PARAMETER	SYMBOL	ТҮР	UNIT
Typical thermal resistance (Note 3)	RthJ _C	1.7	
	RthJ∟	3	€/W
· · · · · · ·	$RthJ_A$	11	
Note:	REV. 3, Apr-2016,	KTHC112	

(1) 300us pulse width, 2% duty cycle.

- (2) Measured at 1.0MHz and applied reverse voltage of 4.0V DC
- (3) Thermal resistance junction to case, lead and ambient. Device mounted on 100 mm x 100 mm x 10 mm copper plate.

RATING AND CHARACTERISTIC CURVES G20100CTFW







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