

G2045CTFW

TRENCH SCHOTTKY RECTIFIERS

REVERSE VOLTAGE - 45 Volts FORWARD CURRENT - 20 Amperes

FEATURES

- Trench Schottky technology
- Low power loss, high efficiency
- Low forward drop voltage
- For use in low voltage, high frequency inverters, free wheeling, and 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".

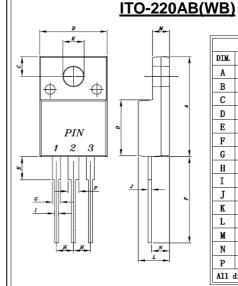
• Terminals: Matte Tin

• Lead Free Finish, RoHS Compliant

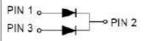
• Polarity: As marked on the body

• Weight: 0.05 ounces, 1.558 grams (Approximate)

• Mounting position: Any



ITO-220AB (WB)				
DIM.	MIN.	MAX.		
A	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		
H	2. 40	2. 70		
Ι	0.50	0.80		
J	0. 45	0.70		
K	3. 00	3. 30		
L	4. 46	4. 87		
M	2. 48	2. 80		
N	2. 50	2.80		
P	1. 50	1. 90		
All dimensions in millimeter				



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.

ABSOLUTE RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	45	V
Maximum DC Blocking Voltage	V_{DC}	45	V
Average Rectified Output Current per device @Tc=110℃	I _F	20	Α
Non-repetitive Peak Forward Surge Current single half sine-wave tp=8.3ms	I _{FSM}	180	А
Operating junction and Storage temperature range	T _{J,} T _{STG}	-55 to +150	Ĉ

STATIC ELECTRICAL CHARACTERISTICS

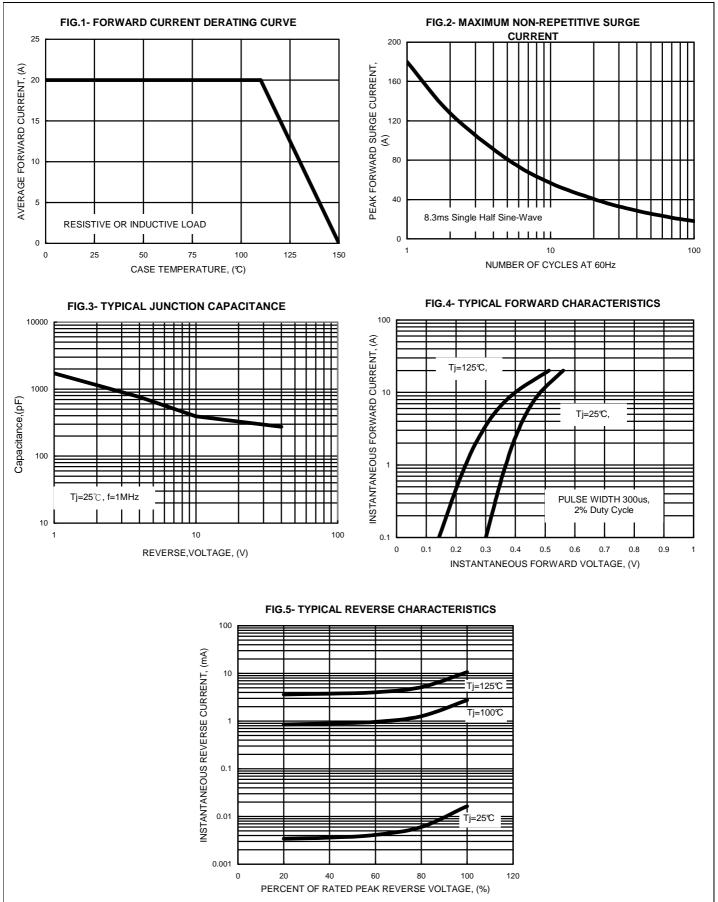
Parameter	Test condition	Symbol	Тур.	Max.	Unit
Maximum Forward Voltage Note(1)	IF=10A @Tj=25℃ IF=10A @Tj=125℃	VF	- 0.45	0.5 -	V
Maximum DC Reverse Current	VR=45V @Tj=25℃ @Tj=125℃	IR	-	0.5 100	mA mA
Junction Capacitance per element	f=1MHz, VR=4V	Cj	1260	-	pF

THERMAL CHARACTERISTICS

Parameter	SYMBOL	VALUE		UNIT
	R⊖ _{JC}	3		
Typical thermal resistance Junction (Note 2&3)	$R_{\Theta JL}$	4		\mathcal{C} /W
	$R_{\Theta JA}$	15		
Note:			REV. 4, Jan -2017, KTHC126	

- (1) 300us Pulse Width, 2% Duty Cycle.
- (2) Thermal Resistance Junction to Case, Lead and Ambient.
- (3) Device mounted on 72 x 75 x 2 mm Copper plate.







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