

**TRENCH SCHOTTKY RECTIFIER**

**REVERSE VOLTAGE** – 100 Volts  
**FORWARD CURRENT** – 20 Amperes

**FEATURES**

- High efficiency
- Reduced high temperature reverse leakage
- Reduced ultra-low forward voltage drop
- Qualification is according to AEC-Q101 Rev\_C

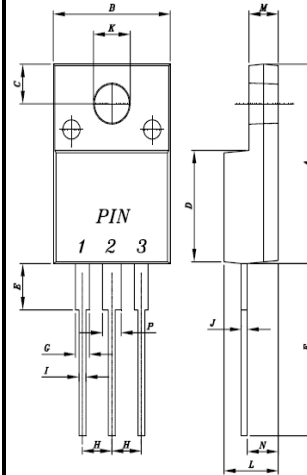
**APPLICATION**

- DC to DC converter
- AC to DC Adaptors

**MECHANICAL DATA**

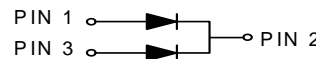
- Case: JEDEC TO-220ABFP
- Case Material: “Green” molding compound, UL Flammability classification 94V-0,(No Br. SB. Cl.) “Halogen-free”.
- Lead free finish, RoHS compliant
- Weight: 1.558 grams (Approximate)
- Marking code: G20E100CTFW

**ITO-220AB**



ITO-220AB		
DIM	MIN	MAX
A	14.95	15.95
B	10.00	10.40
C	2.76	3.36
D	8.50	8.80
E	3.30	3.90
F	13.00	13.70
G	1.15	1.70
H	2.40	2.70
I	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 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	$V_{RRM}$	100	V
Maximum DC blocking voltage	$V_{DC}$	100	V
Maximum Average rectified output current	$I_{(AV)}$	20	A
Peak forward surge current 8.3 ms single half sine-wave Superimposed on rated load.	$I_{FSM}$	250	A
Non repetitive peak reverse current	$I_{RSM}$	3	A
Operating junction and Storage Temperature range	$T_J, T_{STG}$	-55 ~ +150	°C

**STATIC ELECTRICAL CHARACTERISTICS**

PARAMETER	TEST CONDITIONS	SYMBOL	TYP	MAX	UNIT
Forward voltage (Note1)	$I_F=10A$ $T_J=25^\circ C$ $T_J=125^\circ C$	$V_F$	-- --	0.72 0.64	V
Leakage current	$V_R=100V$ $T_J=25^\circ C$ $T_J=125^\circ C$	$I_R$	-- --	30 12	uA mA
Typical junction capacitance (Note 2)		$C_J$		440	pF

**THERMAL CHARACTERISTICS**

PARAMETER	SYMBOL	TYP	UNIT
Typical thermal resistance (Note 3,4)	$R_{thJC}$ $R_{thJL}$	4 6	°C/W

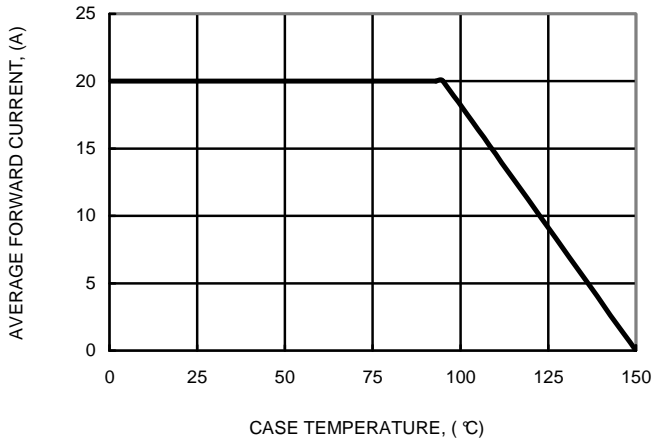
**Note :**

- (1) 300us pulse width, 2% duty cycle.
- (2) Measured at 1.0MHz and applied voltage of 4.0VDC.
- (3) Thermal resistance test performed in accordance with JESD-51.
- (4) The unit mounted on Fin-type heatsink (75 mm x 75mm x 5 mm) .

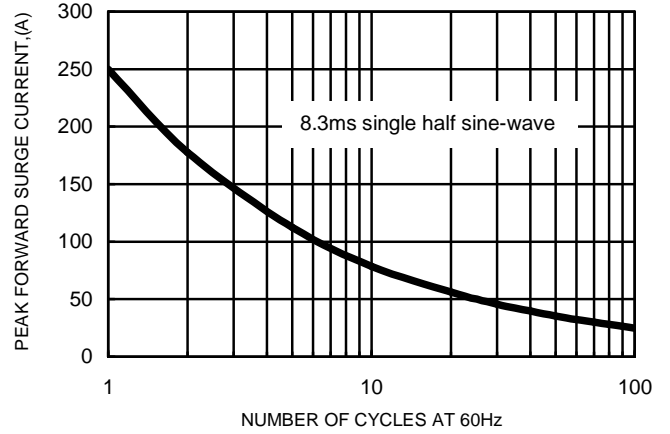
**RATING AND CHARACTERISTIC CURVES  
G20E100CTFW**



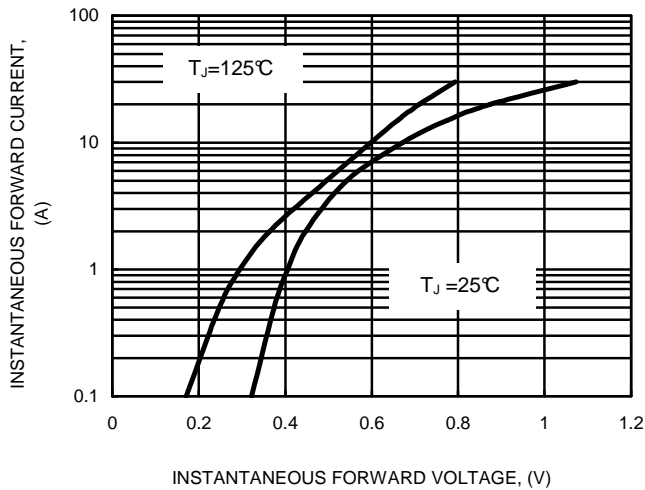
**FIG.1 FORWARD CURRENT DERATING CURVE**



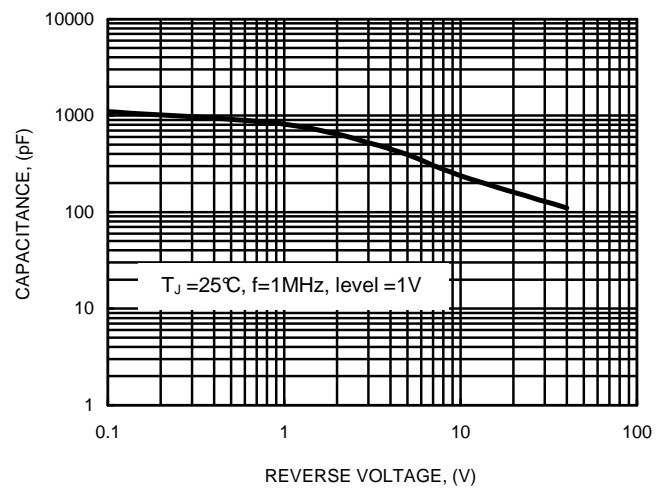
**FIG.2 MAXIMUM NON-REPETITIVE SURGE CURRENT**



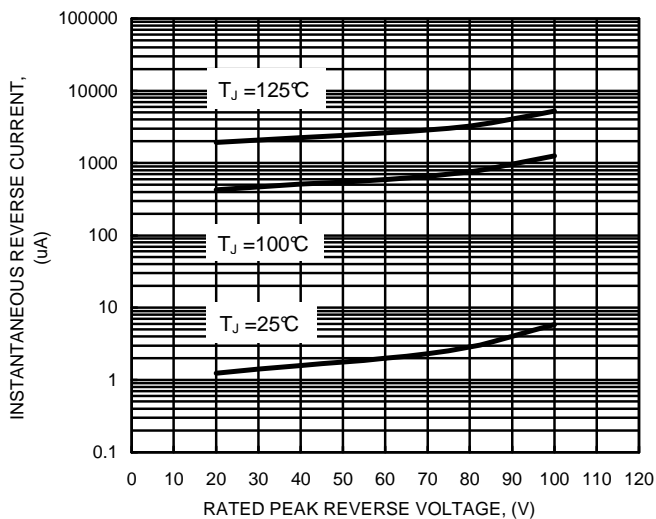
**FIG.3 TYPICAL FORWARD CHARACTERISTICS**



**FIG.4 TYPICAL JUNCTION CAPACITANCE**



**FIG.5 TYPICAL REVERSE CHARACTERISTICS**



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