

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE – 60 Volts
FORWARD CURRENT – 30 Amperes

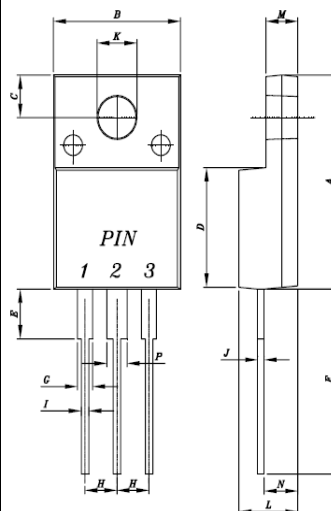
FEATURES

- 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 application

MECHANICAL DATA

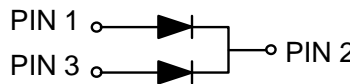
- Case: ITO-220AB molded plastic
- Case Material: "Green" Molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- Maximum mounting torque = 0.5 N.m(5.1 Kgf.cm)
- Lead free finish, RoHS compliant
- Polarity : As marked on body
- Marking position: Any
- Weight: 0.05ounces, 1.558 grams (Approximate)
- Marking code:G3060CTFW

ITO-220AB(W/B)



ITO-220AB(W/B)		
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	13.0	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}	60	V
Maximum DC blocking voltage	V_{DC}	60	V
Maximum Average rectified forward current	I_{AV}	30	A
Peak forward surge 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	250	A
Operating and Storage temperature range	T_J, T_{STG}	-55 ~ +150	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION	SYMBOL	TYP	MAX	UNIT
Forward voltage (Note 1)	$I_F = 15A$ $T_J = 25^\circ C$ $T_J = 125^\circ C$	V_F	0.53 0.49	0.58 0.55	V
Reverse leakage current	$V_R = 60V$ $T_J = 25^\circ C$ $T_J = 125^\circ C$	I_R	-- --	500 55	uA mA
Typical junction capacitance (Note 2)		C_J		950	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP	UNIT
Typical thermal resistance (Note 3)	R_{thJc}	1	°C/W

Note :

- (1) 300us pulse width, 2% duty cycle
- (2) Measured at 1.0MHz and applied reverse voltage of 4.0 VDC
- (3) Thermal Resistance test performed in accordance with JESD-51.

RATING AND CHARACTERISTIC CURVES C3060CTFW



FIG.1- FORWARD CURRENT DERATING CURVE

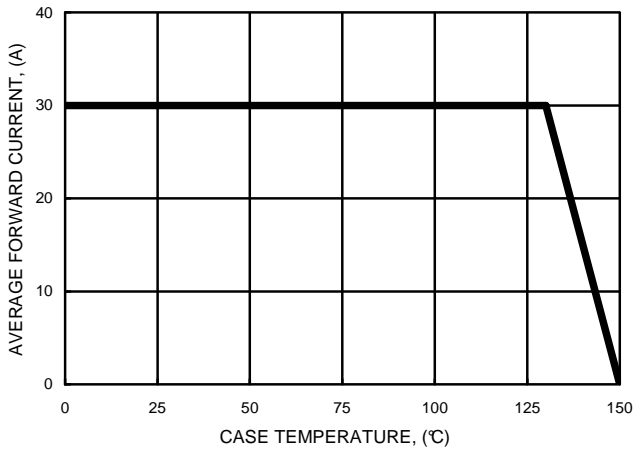


FIG.2- MAXIMUM NON-REPETITIVE SURGE CURRENT

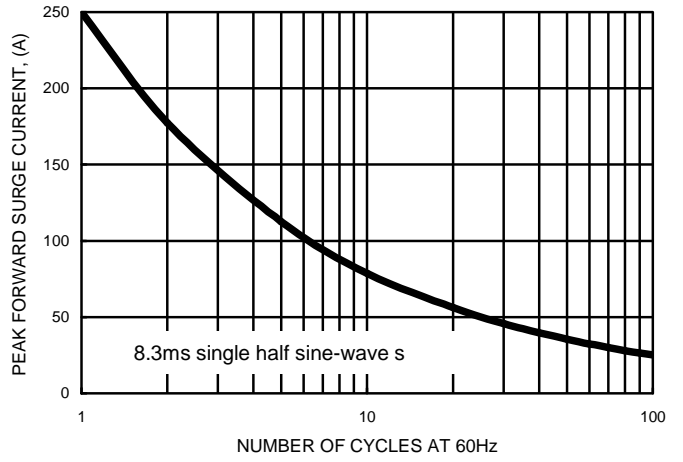


FIG.3- TYPICAL FORWARD CHARACTERISTICS

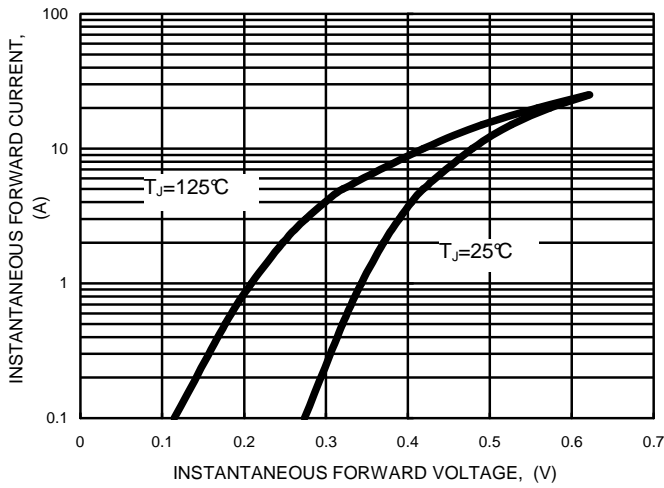


FIG.4- TYPICAL JUNCTION CAPACITANCE

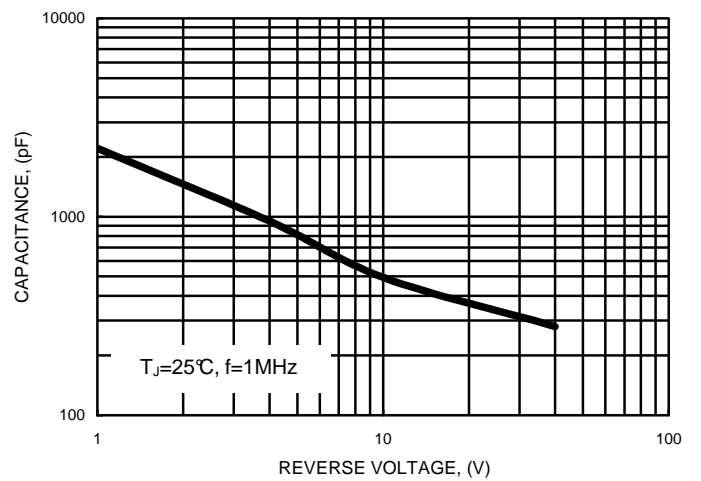
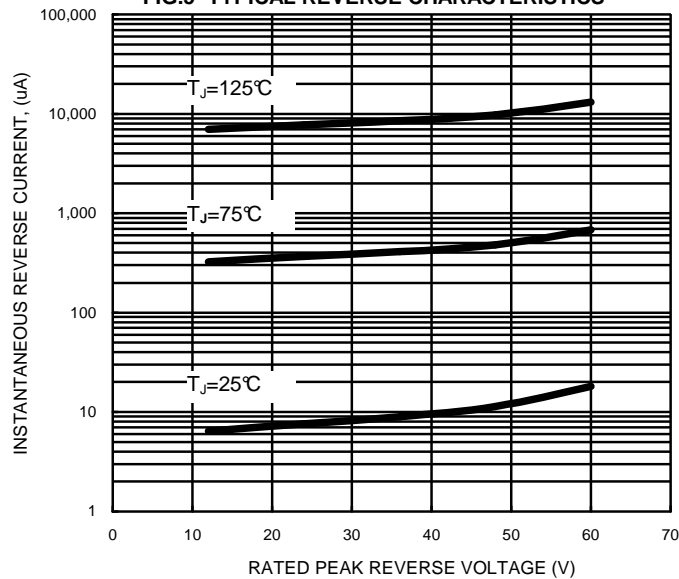


FIG.5- TYPICAL REVERSE CHARACTERISTICS



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