

G20120CTSW

TRENCH SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE - 120 Volts **FORWARD CURRENT** - 20 Amperes

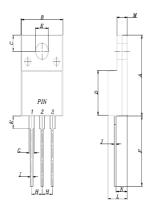
FEATURES

- 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.

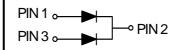
MECHANICAL DATA

- Case: ITO-220AB molded plastic
- Case Material: "Green" molding compound, UL flammability classification 94V-0, (No Br. Sb. Cl.) "Halogen-free".
- Lead Free Finish, RoHS compliant
- Polarity : As marked on the body
- Wight: 1.558grams(Approximate)
- Mounting position : Any
- Max. mounting torque = 0.5 N.m (5.1 Kgf-cm)
- Marking code:G20120CTSW

ITO-220(S)AB(WB)



ITO-220(S)AB				
DIM	MIN	MAX		
Α	14.95	15.95		
В	10.00	10.40		
C	2.76	3.36		
D	8.50	8.80		
Е	2.10	2.50		
F	13.00	13.70		
G	1.15	1.37		
Ι	2.40	2.70		
	0.50	0.80		
J	0.45	0.70		
K	3.00	3.30		
L	4.46	4.87		
M	2.48	2.80		
Ν	2.50	2.80		
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}	120	V
Maximum DC blocking voltage		V_{DC}	120	V
Maximum Average rectified output current	@ T _C = 100°C	I _(AV)	20	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	120	Α
Operating and Storage temperature range		T _J ,T _{STG}	-55 to +150	C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST	CONDITION	SYMBOL	TYP	MAX	UNIT
Forward voltage (Note1)	I _F =10A	T」=25℃ T」=125℃	V _F	0.77 0.62	0.84 0.72	V
Leakage current	V _R =120V	T _J =25℃ T _J =125℃	I _R	 15	150 25	uA mA
Typical junction capacitance (Note	2)	C _j 410		pF		

THERMAL CHARACTERISTICS

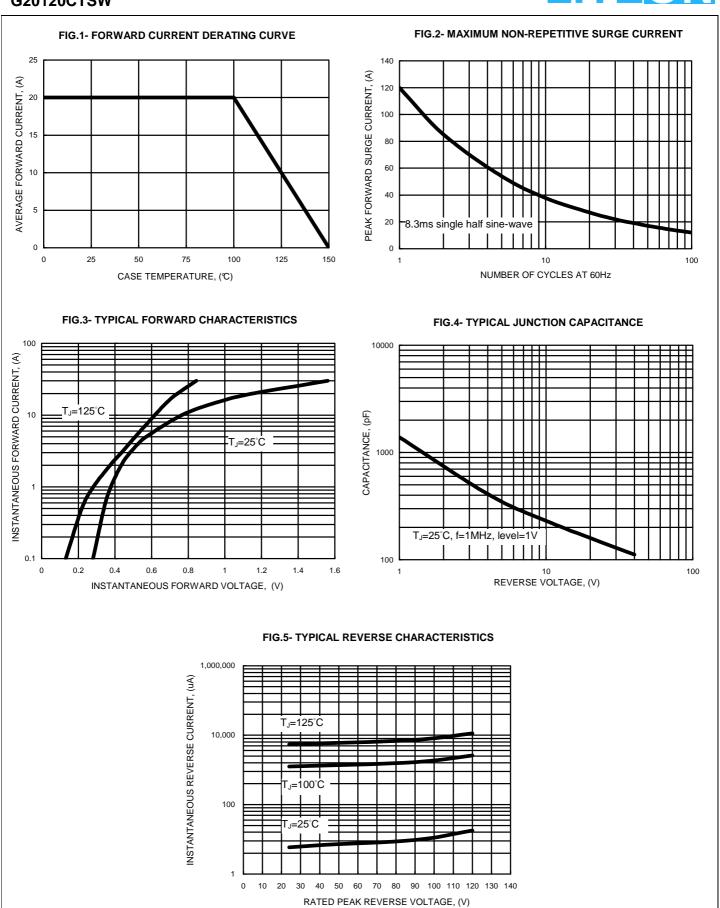
PARAMETER	SYMBOL	TYP		UNIT
Typical thermal resistance (Note3,4)	RthJ _c RthJ _A	3 8		℃/W
Note:			REV. 0 , Jul2015, K	THC133

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

- Measured at 1.0MHz and applied reverse voltage of 4.0 VDC
- Thermal Resistance Junction to Case, Lead and Ambient
- Thermal Resistance test performed in accordance with JESD-51

RATING AND CHARACTERISTIC CURVES G20120CTSW







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