

G20H150CTW

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 150 Volts FORWARD CURRENT - 20 Amperes

FEATURES

- Super Low Forward Voltage Drop
- Reliable High Temperature Operation
- · Softest, fast switching capability
- Qualified according to AEC-Q101 Rev_D

APPLICATIONS

 Device optimized for ultra-low forward voltage drop to maximize efficiency in Power Supply application

MECHANICAL DATA

- Case: TO-220AB molded plastic
- · Case Material: "Green" Molding compound, UL flammability classification 94V-0, "Halogen-free".
- · Lead free finish, RoHS compliant
- · Polarity indicator: As marked on the body
- Marking code: G20H150CTW
- · Weight: 1.927 grams (Approximate)

TO-220AB Ε PIN₂

TO-220AB				
DIM	MIN	MAX		
Α	14.40	15.20		
В	9.65	10.67		
С	2.54	3.43		
D	5.84	6.86		
Е	8.26	9.28		
F	-	4.20		
G	12.70	14.73		
Н	2.29	2.79		
	0.51	1.00		
J	0.30	0.64		
K	3.53Ф	4.09Ф		
L	3.56	4.83		
М	1.14	1.40		
N	2.03	2.92		
0	1.14	1.37		
All Dimensions in millimeter				

REV.-1, Oct.-2020, KTHC214

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}	150	V
Maximum DC blocking voltage		V_{DC}	150	V
Maximum Average rectified forward current @-	Tc = 145°C	I _{AV}	20	Α
Peak forward surge 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	180	Α
Operating and Storage temperature range		T_{J} , T_{STG}	-55 ~ +175	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITION		SYMBOL	TYP	MAX	UNIT
Forward voltage (Note 1)	I _F = 10A	T _J = 25°C	\/		0.82	V
Forward voltage (Note 1)	$I_F = 10A$ $T_J = 12$	T _J = 125°C	VF		0.68	v
Reverse leakage current	$V_R = 150V$ $T_J = 25^{\circ}C$ $T_J = 125^{\circ}C$	T _J = 25°C	1		8	uA
		IR	0.4	10	mA	

DYNAMIC ELECTRICAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
Typical junction capacitance (Note 2)	CJ	710	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP	UNIT
Typical thermal resistance (Note 3,4)	RthJ∟	3	°C/W
Typical thermal resistance (Note 3,4)	RthJc	2	C/VV
Note:	REV -1. Oct -2020 KTHC214		

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

(2) Measured at 1.0MHz and applied reverse voltage of 4.0 VDC

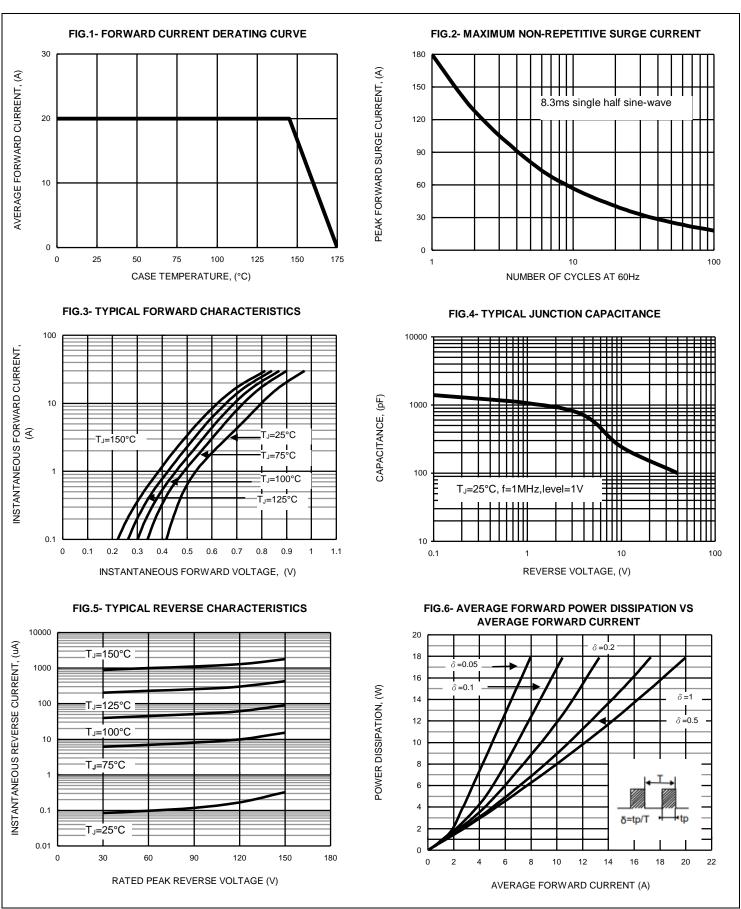
(3) Thermal Resistance test performed in accordance with JESD-51.

(4) The unit mounted on Aluminum fin-type heatsink (25mm x 44mm x 13.6 mm)

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RATING AND CHARACTERISTIC CURVES G20H150CTW

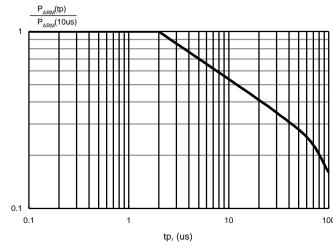




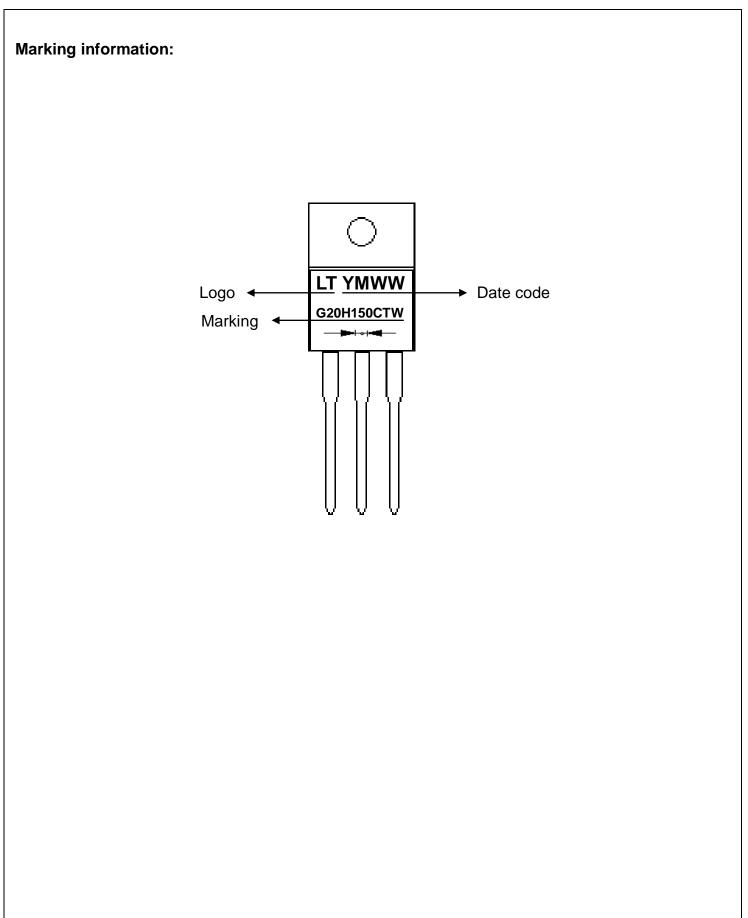
RATING AND CHARACTERISTIC CURVES G20H150CTW







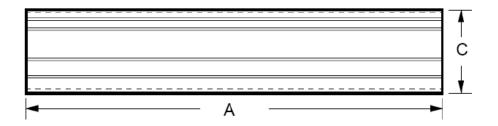


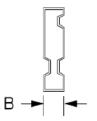




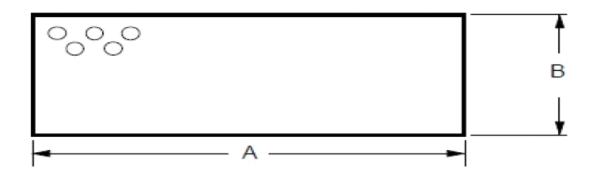
Packaging Information:

1. TUBE

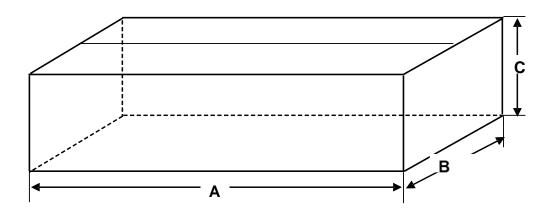




2. AIR BAG



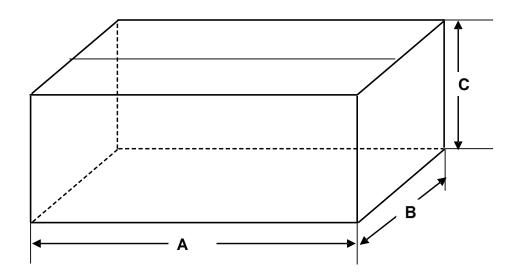
3. INNERBOX





Packaging Information:

4. CARTON



Unit:mm

P/N	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	Q'ty/per	REMARK
TUBE	536	5.6	31.8	50	1
AIR BAG	800	550	1	1	1
INNERBOX	555	165	105	2000	40TUBE
CARTON	575	179	225	4K	2 INNER BOX



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