



G40H100CTFW

REVERSE VOLTAGE - 100 Volts FORWARD CURRENT - 40 Amperes

TRENCH SCHOTTKY RECTIFIER

FEATURES

- High junction temperature capability
- Negligible switching losses
- Good trade off between leakage current forward voltage drop
- Qualification is according to AEC-Q101 Rev_D
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

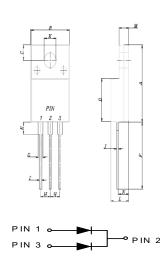
APPLICATION

- High frequency miniature switch mode of adaptors
- On-board DC-DC converters
- · Use in high frequency inverters

MECHANICAL DATA

- Package: JEDEC TO-220ABFP
- Package Material: "Green" molding compound, UL flammability classification 94V-0, "Halogen-free"
- Marking code: G40H100CTFW
- Weight: 0.05 ounces, 1.558 grams (Approximate)

ITO-220(S)AB



ITO-220(S)AB				
DIM	MIN	MAX		
Α	14.95	15.95		
В	10.00	10.40		
С	2.76	3.36		
D	8.50	8.80		
Е	2.10	2.50		
F	13.00	13.70		
G	1.15	1.37		
Н	2.40	2.70		
ı	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		
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	@T _C =30°C	I _(AV)	40	Α
Non repetitive peak reverse current @ tp=2us		I _{RSM}	3	
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	250	А
Operating junction and storage temperature range		T _J , T _{STG}	-55 to +175	°C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	AMETER TEST CONDITIONS SYMBOL TYP		TYP	MAX	UNIT	
Forward voltage (Note 4)	I _F =20A	T _J =25°C T _J =125°C	V _F	 0.65	0.79	V
Leakage current	V _R =100V	T _J =25°C T _J =125°C	I _R	 1.2	10 10	uA mA
Typical junction capacitance (Note 5)		CJ	1370		pF	

THERMAL CHARACTERISTICS

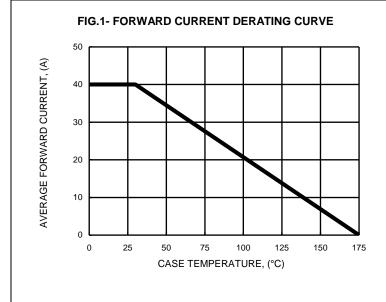
PARAMETER	SYMBOL	TYP	UNIT	
Typical thermal resistance (Notes 6, 7)	RthJ _c	3	°C/W	
Typical thermal resistance (Notes 6, 7)	RthJ∟	5	O/ VV	

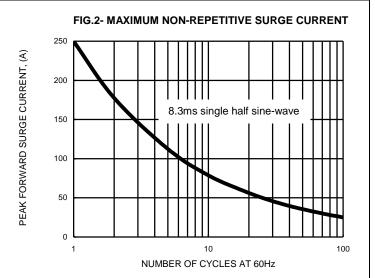
Notes:

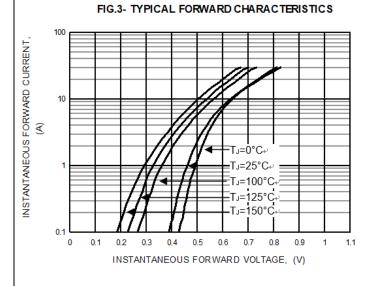
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. 300us pulse width, 2% duty cycle.
- 5. Measured at 1.0MHz and applied voltage of 4.0V DC.
- 6. Thermal resistance test performed in accordance with JESD-51.
- 7. The unit mounted on Aluminum plate (29.5mm x 35.8mm x 1.6mm) & Aluminum fin-type heatsink (170mm x 170mm x 44.3mm) in free air.

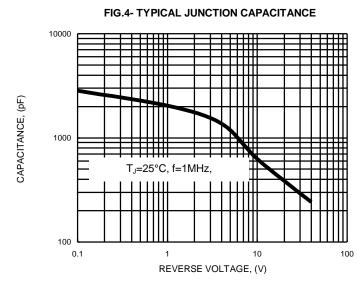


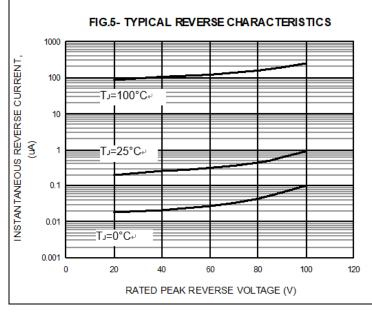
RATING AND CHARACTERISTIC CURVES G40H100CTFW

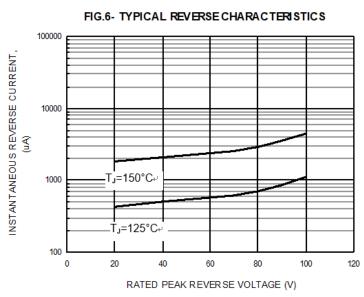










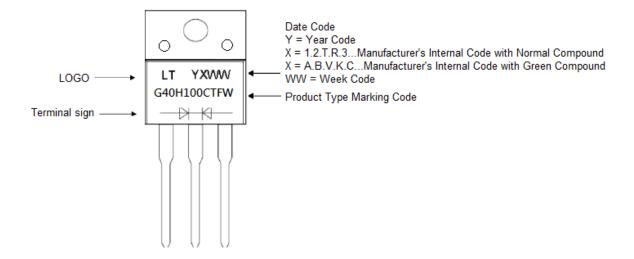




Ordering Information:

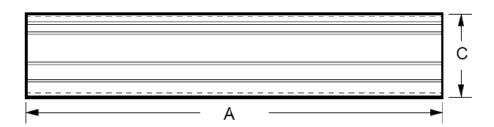
Part Number	Packago	Packing		
Fait Number	Package	Qty.	Carrier	
G40H100CTFW	ITO-220(S)AB	50 pcs	Tube	

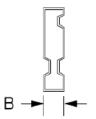
Marking Information:



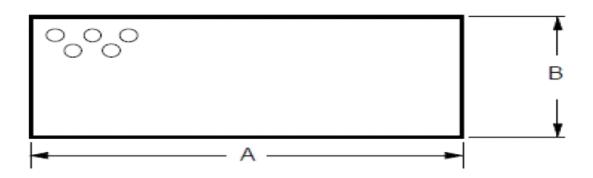
Packaging Information:

1. TUBE

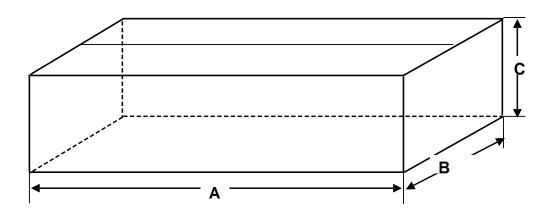




2. AIR BAG

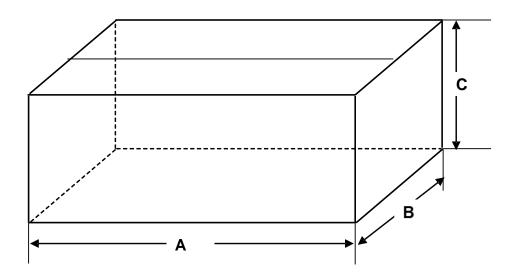


3. INNERBOX



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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