

G40E120CTFW

TRENCH SCHOTTKY RECTIFIER

REVERSE VOLTAGE - 120 Volts FORWARD CURRENT - 40 Amperes

FEATURES

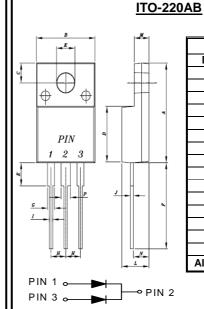
- High efficiency
- Reduced high temperature reverse leakage
- Reduced ultra-low forward voltage drop
- Qualification is according to AEC-Q101 Rev_C

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: G40E120CTFW



ITO-220AB				
DIM	MIN	MAX		
Α	14.95	15.95		
В	10.00	10.40		
С	2.76	3.36		
D	8.50	8.80		
E	3.30	3.90		
F	13.00	13.70		
G	1.15	1.70		
Н	2.40	2.70		
ı	0.50	0.80		
7	0.45	0.70		
K	3.00	3.30		
L	4.46	4.87		
M	2.48	2.80		
N	2.50	2.80		
Р	1.50	1.90		
All dimension in millimeter				

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwis e specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	
Maximum repetitive peak reverse voltage		V _{RRM}	120	V
Maximum DC blocking voltage		V _{DC}	120	V
Maximum Average rectified output current	@T _C =120℃	I (AV)	40	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I _{FSM}	300	А
Non repetitive peak reverse current	@tp=2us	I _{RSM}	3	А
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 =20A	Tյ=25℃ Tյ=125℃	V _F	 0.69	0.82 0.74	V
Leakage current	V _R =120V	Tյ=25℃ Tյ=125℃	I _R	 12	60 30	uA mA
Typical junction capacitance (Note 2)		C	860		pF	

THERMAL CHARACTERISTICS

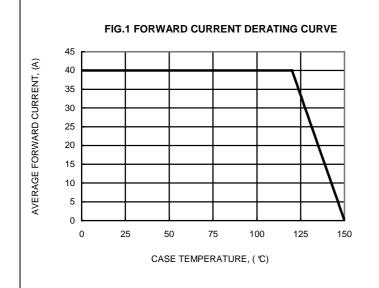
PARAMETER	SYMBOL	ТҮР		UNIT
Typical thermal resistance (Note 3,4)	RthJ _C	1		€W.
Typical thermal resistance (Note 5,4)	RthJ∟	5		
Note:			REV1 , Apr-2017, k	THC152

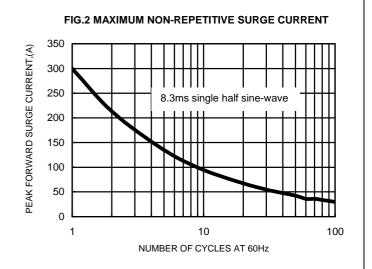
Note: (1) 300us pulse width, 2% duty cycle.

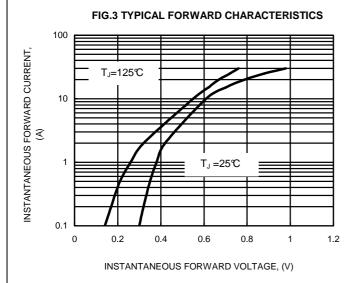
- (2) Measured at 1.0MHz and applied voltage of 4.0V DC.
- (3) Thermal resistance test performed in accordance with JESD-51.
- (4) The unit mounted on fin type heatsink (85.2mm x 32mm x 24mm) and cathode pin mounted on Aluminum heatsink (35.8mm x 30mm x 1.45mm) in free air condition

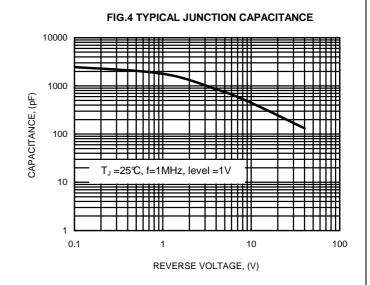
RATING AND CHARACTERISTIC CURVES G40E120CTFW

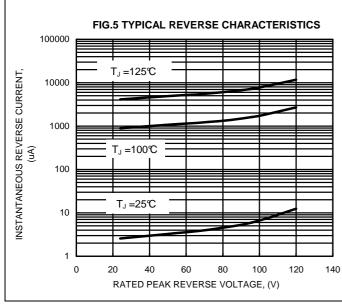














Important Notice and Disclaimer

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.