LITE-ON LITEON SEMICONDUCTOR

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

FEATURES

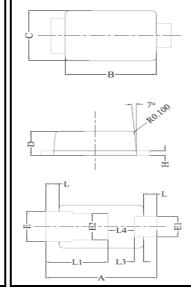
- Ultra-Small Surface Mount Package
- Qualification is according to AEC-Q101 Rev_C

APPLICATION

- DC to DC converter
- · Polarity protection application
- Freewheeling diodes

MECHANICAL DATA

- Case: SOD-323EP Plastic
- Case Material: "Green" molding compound, UL Flammability classification 94V-0,(No Br. SB. Cl.) "Halogen-free".
- Moisture Sensitivity: Level 1 per J-STD-020
- · Lead free finish, RoHS compliant
- Weight: 0.005 grams (Approximate)
- Marking code: B2E



REVERSE VOLTAGE

FORWARD CURRENT – 2 Amperes

SOD-323EP

SOD-323EP DIM MIN MAX 2.40 Α 2.60 в 1.85 1.95 С 1.20 1.30 0.70 D 0.60 Е 0.78 0.98 E1 0.50 0.70 F2 0.60 1.00 0.08 0.18 н 0.20 0.40 L L1 1.40(TYP) L3 0.20(TYP) 0.40 L4 0.80 All dimension in millimeter

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwis e specified.

ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V _{RRM}	30	V
Maximum DC blocking voltage		V _{DC}	30	V
Maximum Average rectified output current	@T _c =95℃	I _(AV)	2	А
Peak forward surge current 8.3ms single half sine-wave Superimposed on rated load.		I _{FSM}	25	A
Operating junction and Storage Temperature range		$T_{J,} T_{STG}$	-55 ~ +125	C

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST C	ONDITIONS	SYMBOL	MAX	UNIT
Forward voltage (Note1)	I _F =2A	Tյ=25℃ Tj=125℃	VF	0.60 0.55	V
Leakage current	V _R =30V	Tյ=25℃ Tj=125℃	I _R	60 40	uA mA
Typical junction capacitance (Note 2)			C,	1160	pF

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР		UNIT
	RthJ _A	100		C/W
Typical thermal resistance (Note 3,4)	RthJ _c	25		
	RthJ∟	50		
Nete	REV 1 Oct 2016 KSH	HRUE		

Note :

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

Measured at 1.0MHz and applied voltage of 4.0V DC. (2)

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

The Unit mounted on Aluminum substrate PC board.(9.89mm x 9.74mm x 1.49mm) (4)

FB230H

- 30 Volts

REV.1, Oct -2016, KSHR06

RATING AND CHARACTERISTIC CURVES FB230H

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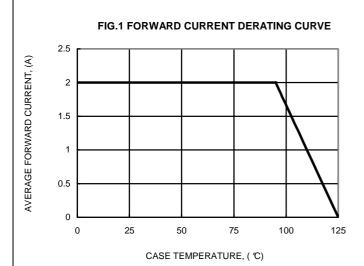
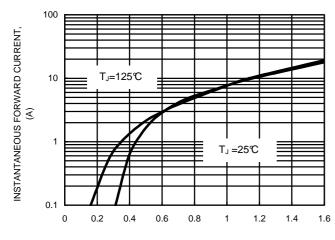


FIG.3 TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, (V)

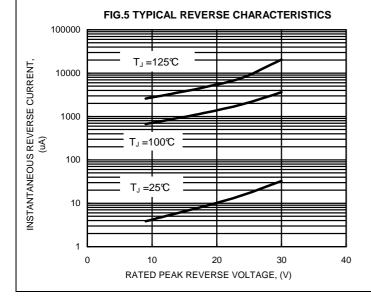


FIG.2 MAXIMUM NON-REPETITIVE SURGE CURRENT

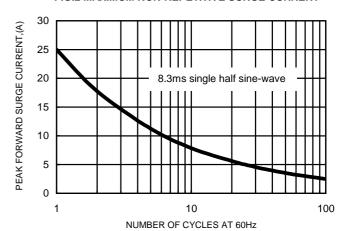
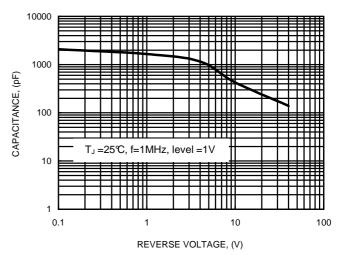


FIG.4 TYPICAL JUNCTION CAPACITANCE



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