

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

FEATURES

- Very low profile package
- High efficiency
- Negligible switching losses
- Low forward voltage drop, low power loss
- Qualification is according to AEC-Q101 Rev_C

APPLICATION

- · Low voltage high frequency inverters
- DC to DC converter
- · Polarity protection application

MECHANICAL DATA

- Case: JEDEC DO-219AA
- Case Material: "Green" molding compound, UL flammability classification 94V-0, "Halogen-free".
- Moisture Sensitivity: Level 1 per J-STD-020
- Lead free finish, RoHS compliant
- Weight: 16.3 mg (Approximate)
- Marking code: 360

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}	60	
Maximum DC blocking voltage		V _{DC}	60	V
Maximum Average rectified output current	@T _c =95°C	I _(AV)	3	А
Peak forward surge current 8.3ms single half sine-wave Superimposed on rated load.		IFSM	70	
Operating junction and Storage Temperature range		TJ, TSTG	-55 ~ +150	

STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST C	ONDITIONS	SYMBOL	ТҮР	MAX	UNIT
Forward voltage (Note 1)	I⊧=3A	T」=25°C T」=125°C	VF	 0.54	0.695	V
Leakage current	V _R =60V	T」=25°C T」=125°C	IR	 2.25	25 5	uA mA
Typical junction capacitance (Note 2)		CJ	135		pF	

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
	RthJ _A	80	
Typical thermal resistance (Note 3)	RthJc	30	°C/W
	RthJ∟	30	

REV.-2 , Sep -2019, KSHP46

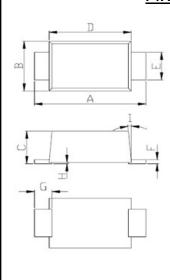
(1) 300us pulse width, 2% duty cycle.

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

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

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REVERSE VOLTAGE – 60 Volts FORWARD CURRENT – 3 Amperes



F1A					
DIM	MIN	TYP	MAX		
Α	3.50	3.80	3.90		
В	1.70	1.90	2.00		
С	0.81	1.18	1.20		
D	2.70	2.80	2.90		
Е	0.80	1.00	1.35		
F	0.05	0.15	0.30		
G	0.35	0.60	0.85		
Н	0.03	0.07	0.1		
I	0°	5°	8°		
All dimension in millimeter					

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Note :

FB360E

RATING AND CHARACTERISTIC CURVES FB360E

LITEON

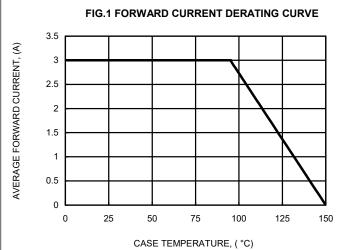
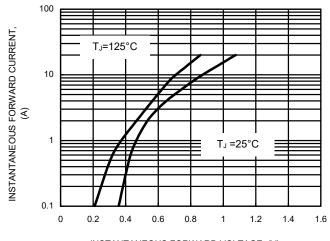


FIG.3 TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, (V)

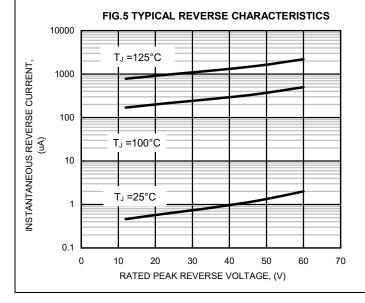


FIG.2 MAXIMUM NON-REPETITIVE SURGE CURRENT

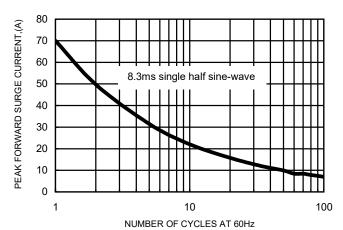
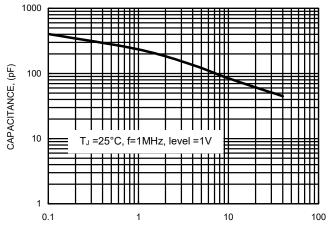


FIG.4 TYPICAL JUNCTION CAPACITANCE



REVERSE VOLTAGE, (V)



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