

A Product Line of **Diodes Incorporated**

LITE-ON **SEMICONDUCTOR**

FB260E

SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

REVERSE VOLTAGE - 60 Volts FORWARD CURRENT - 2 Amperes

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
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)

APPLICATION

- · Low voltage high frequency inverters
- DC to DC converters
- · Polarity protection applications

MECHANICAL DATA

- Package: JEDEC DO-219AA
- Package 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: 260

F1A

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	0.10	
ı	0°	5°	8°	
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}	60	V
Maximum DC blocking voltage		V_{DC}	60	V
Maximum Average rectified output current	@T _C =105°C	I _(AV)	2	Α
Peak forward surge current 8.3ms single half sine-wave Superimposed on rated load.		I _{FSM}	60	Α
Operating junction and Storage Temperature range		T _{J,} T _{STG}	-55 to +150	°C

STATIC FLECTRICAL CHARACTERISTICS

PARAMETER	TEST (CONDITIONS	SYMBOL	TYP	MAX	UNIT	
Forward voltage (Note 4)	I _F =2A	T _J =25°C T _J =125°C	V _F	 0.55	0.675	V	
Leakage current	V _R =60V	T _J =25°C T _J =125°C	I _R	 1.03	25 5	uA mA	
Typical junction capacitance (Note 5)		CJ	85		pF		

THERMAL CHARACTERISTICS

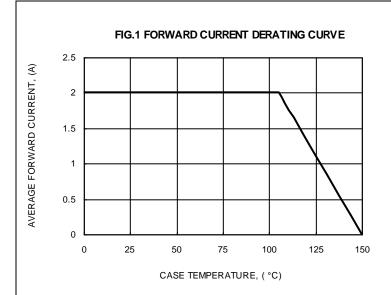
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PARAMETER	SYMBOL	TYP	UNIT		
	RthJ _A	110			
Typical thermal resistance (Note 6)	RthJ _C	35	°C/W		
	$RthJ_L$	65			

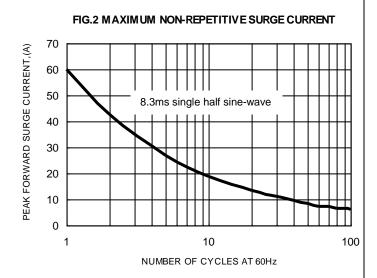
- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.

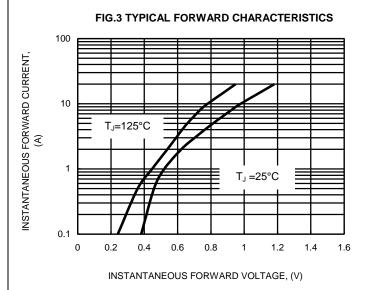
 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. 300us pulse width, 2% duty cycle.
- 5. Measured at 1.0MHz and applied voltage of 4.0VDC.
- 6. Thermal resistance test performed in accordance with JESD-51.

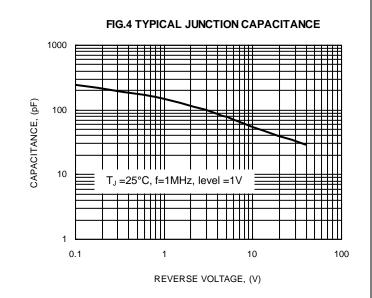


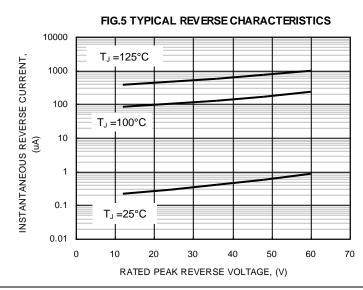
RATING AND CHARACTERISTIC CURVES FB260E









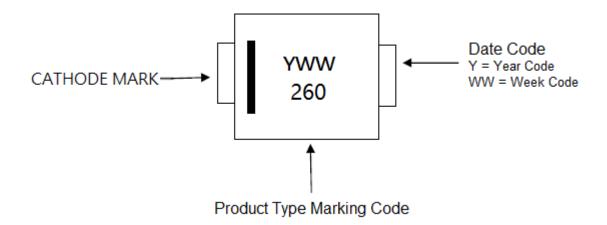




Ordering Information:

		Packing		
Part Number	Package	Qty.	Carrier	
FB260E-7	F1A	2500	Tape & Reel	
FB260E-13	F1A	10000	Tape & Reel	

Marking Information:



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