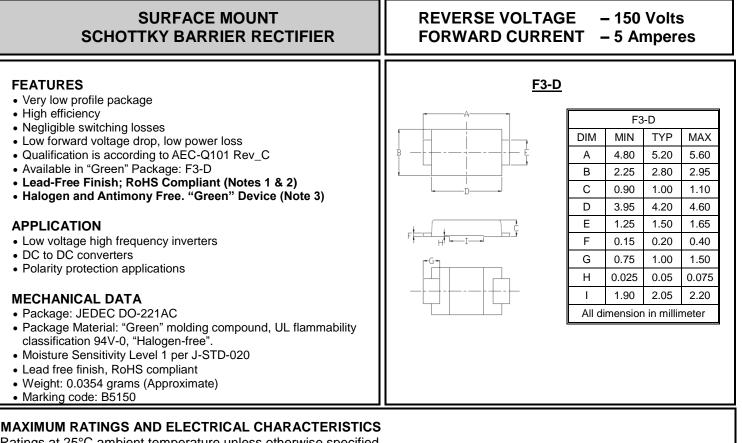




A Product Line of Diodes Incorporated

# LITE-ON SEMICONDUCTOR FB5150D



Ratings at 25°C ambient temperature unless otherwise specified.

#### ABSOLUTE RATINGS

PARAMETER		SYMBOL	VALUE	UNIT
Maximum repetitive peak reverse voltage		V <sub>RRM</sub>	150	V
Maximum DC blocking voltage		V <sub>DC</sub>	150	V
Maximum Average rectified output current	@T <sub>c</sub> =145°C	I <sub>(AV)</sub>	5	А
Peak forward surge current 8.3ms single half sine-wave Superimposed on rated load.		I <sub>FSM</sub>	140	A
Operating junction Temperature range		T <sub>J,</sub>	-55 ~ +175	°C

#### STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	ТҮР	MAX	UNIT
Forward voltage (Note 4)	I <sub>F</sub> =5A	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	V <sub>F</sub>	0.66	0.875	V
Leakage current	V <sub>R</sub> =150V	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	I <sub>R</sub>	 0.40	6 3	uA mA
Typical junction capacitance (Note 5)			CJ	10	pF	

### THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT	
Typical thermal resistance (Note 6,7)	RthJ <sub>c</sub>	8	°C/W	
	RthJ∟	16	C/ VV	

Note:

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.

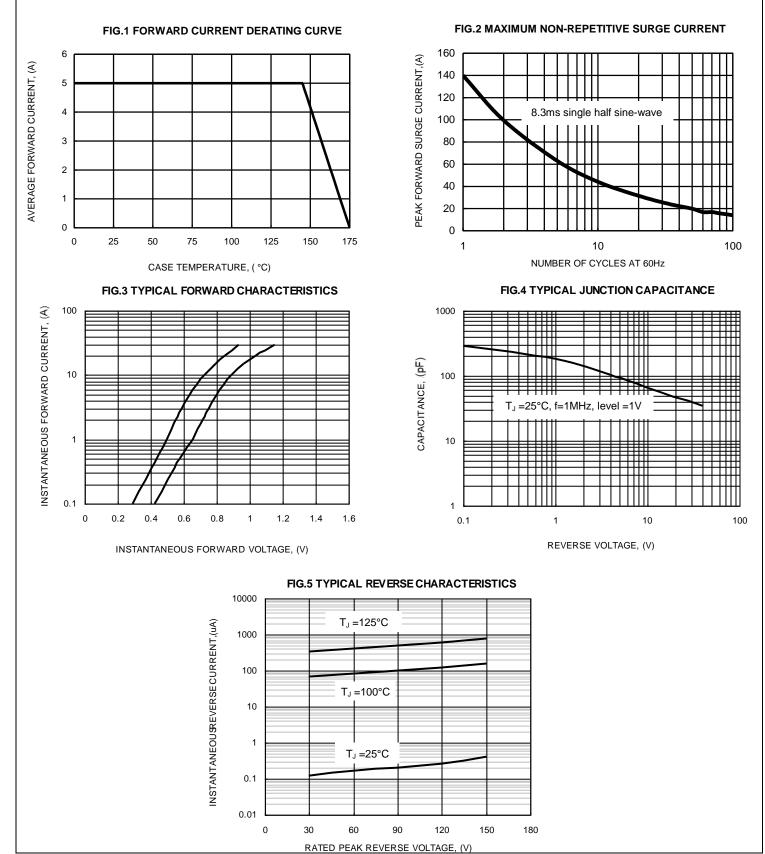
5. Measured at 1.0MHz and applied voltage of 4.0V DC.

6. Thermal resistance test performed in accordance with JESD-51.

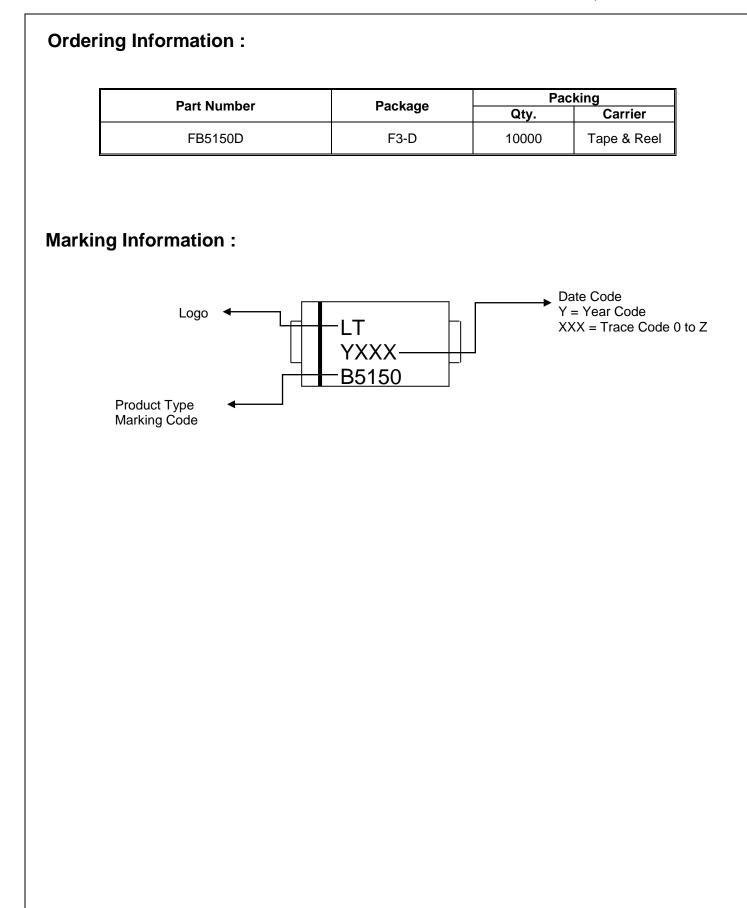
7. The unit mounted on Aluminum substrate PC board with additional Copper (50mmx50mmx1.7mm).



## LITE-ON SEMICONDUCTOR









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