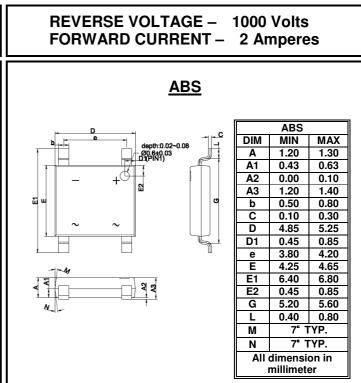
# LITEON LITE-ON SEMICONDUCTOR **GLASS PASSIVATED** SURFACE MOUNT BRIDGE RECTIFIER

#### **FEATURES**

- · Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique

#### **MECHANICAL DATA**

- Case Material: "Green" molding compound, UL flammability classification 94V-0,(No Br. Sb. Cl.) "Halogen-free"
- UL recognized file # E364304
- · Polarity indicator: As marked on the body
- Weight: 98 mg (Approximate)
- Marking Code: ABS20M



#### 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 <sub>RRM</sub>	1000	V
Maximum DC blocking voltage		V <sub>DC</sub>	1000	V
Average rectified output current per device		I <sub>(AV)</sub>	2	Α
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	@ T <sub>A</sub> =25°C @ T <sub>A</sub> =125°C (Note 1)	I <sub>FSM</sub>	55 44	А
Peak forward surge current 1ms single half sine-wave superimposed on rated load	@ T <sub>A</sub> =25°C @ T <sub>A</sub> =125°C (Note 1)	I <sub>FSM</sub>	110 88	А
$I^2$ t rating for fusing (t = 8.3ms)		l <sup>2</sup> t	10.37	A <sup>2</sup> S
Operating and storage temperature range		T <sub>J</sub> ,T <sub>STG</sub>	-55 to +150	°C

#### STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST	CONDITION	SYMBOL	MAX.	UNIT
Forward voltage (Note1)	$I_F = 1A$	$T_A = 25^{\circ}C$	V <sub>F</sub>	0.95	V
Leakage current	V <sub>R</sub> = 1000V	$\begin{array}{l} T_A = 25^{\circ}C \\ T_A = 125^{\circ}C \ (\text{Note1}) \end{array}$	I <sub>R</sub>	10 100	uA
Typical junction capacitance (Note 2)		C,	12.34	рF	

#### THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	TYP.	UNIT			
Typical thermal resistance (Note 3)	RthJ <sub>c</sub> RthJ <sub>L</sub>	12 15.5	°C/W			
M .	RthJ <sub>A</sub>	26				
Note :	REV.1. Sep2016.	REV.1, Sep2016, KBDA37				

Perform static test after the temperature of oven is steady 20 minutes. (1)

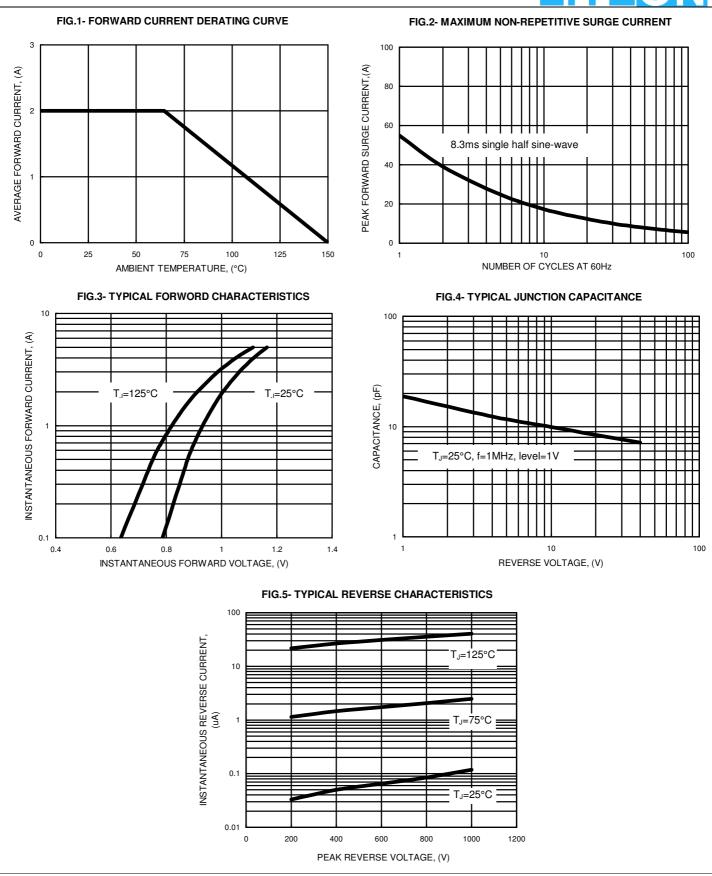
Measured at 1.0MHz and applied reverse voltage of 4.0V DC (2)

Thermal resistance junction to case, lead and ambient in accordance with JESD-51. Unit mounted on  $10z/ft^2$  30mm \*30mm copper pad per pin. (3)

## ABS20M

## RATING AND CHARACTERISTIC CURVES ABS20M

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