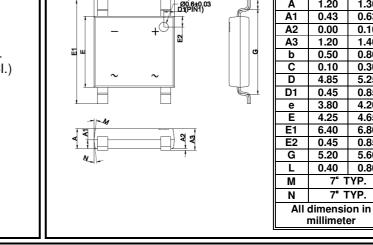


- Weight: 98 mg (Approximate)
- Marking Code: ABS20M



0.85

5.60

0.80

7° TYP.

7° TYP.

#### 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∟ RthJ <sub>A</sub>	12 15.5 26	°C/W		
Note :	REV.1, Sep2016	REV.1, Sep2016, KBDA37			

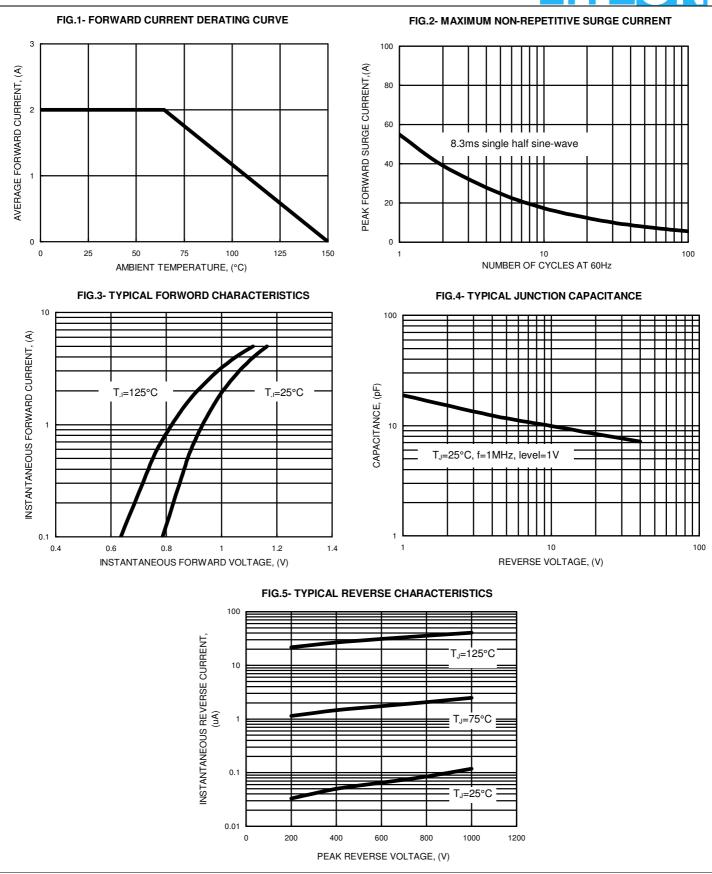
Perform static test after the temperature of oven is steady 20 minutes. (1)

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)

## RATING AND CHARACTERISTIC CURVES ABS20M

# **LITEON**





### **Important Notice and Disclaimer**

LSC reserves the right to make changes to this document and its products and specifications at any time without notice. Customers should obtain and confirm the latest product information and specifications before final design, purchase or use.

LSC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does LSC assume any liability for application assistance or customer product design. LSC does not warrant or accept any liability with products which are purchased or used for any unintended or unauthorized application.

No license is granted by implication or otherwise under any intellectual property rights of LSC.

LSC products are not authorized for use as critical components in life support devices or systems without express written approval of LSC.