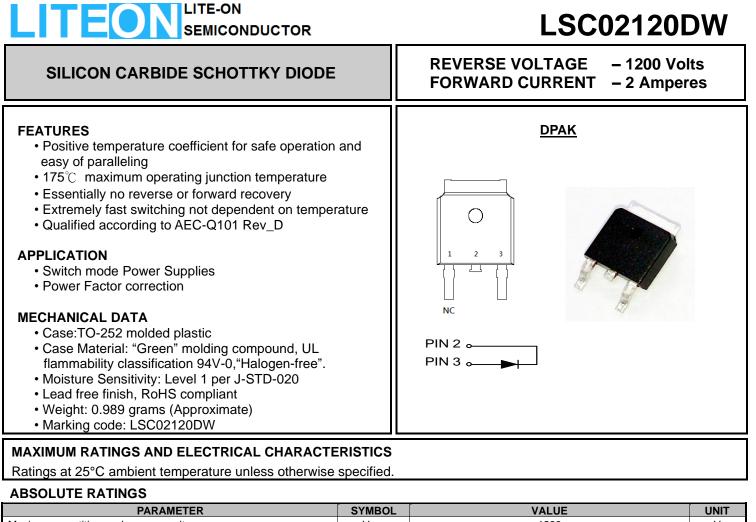
#### www.YesLED.com / Info@YesLED.com



PARAMETER			SYMBOL	VALUE		UNIT
Maximum repetitive peak reverse voltage			V <sub>RRM</sub>	1200		V
Maximum DC blocking voltage			V <sub>DC</sub>	1200		V
Maximum Average rectified output current @T <sub>c</sub> =130°C		I <sub>(AV)</sub>	2		A	
Peak forward surge current 10ms single half sine-wave superimposed on rated load.			I <sub>FSM</sub>	24		А
Operating junction and Storage Temperature range			T <sub>J,</sub> T <sub>STG</sub>	-55 ~ +175		°C
STATIC ELECTRICAL C	HARACTERIST	ICS				
PARAMETER	TEST C	ONDITIONS	SYMBOL	TYP MAX		UNIT
Forward voltage (Note1)	I <sub>F</sub> =2A	T <sub>J</sub> =25°C T <sub>J</sub> =150°C	V <sub>F</sub>	 1.9	1.6 2.3	V
Leakage current	V <sub>R</sub> =1200V	T <sub>J</sub> =25°C T <sub>J</sub> =150°C	I <sub>R</sub>	 94	128 	uA
DYNAMIC ELECTRICAL	CHARACTERIS	STICS				
PARAMETER	TEST C	TEST CONDITIONS		ТҮР		UNIT
Total Capacitive Charge	VR=400V,dl/ I <sub>F</sub> =2A	VR=400V,dl/dt= 200A/uS $I_F=2A$		15		nC
Typical junction capacitance (Note 2)			CJ	105		pF
THERMAL CHARACTER	ISTICS					
PARAMETER			SYMBOL	ТҮР		UNIT

**RthJ**<sub>C</sub>

RthJ<sub>1</sub>

9

4

°C/W

REV.-7, Jan-2021, KTGB15

#### Note :

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

Typical thermal resistance (Note 3,4)

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

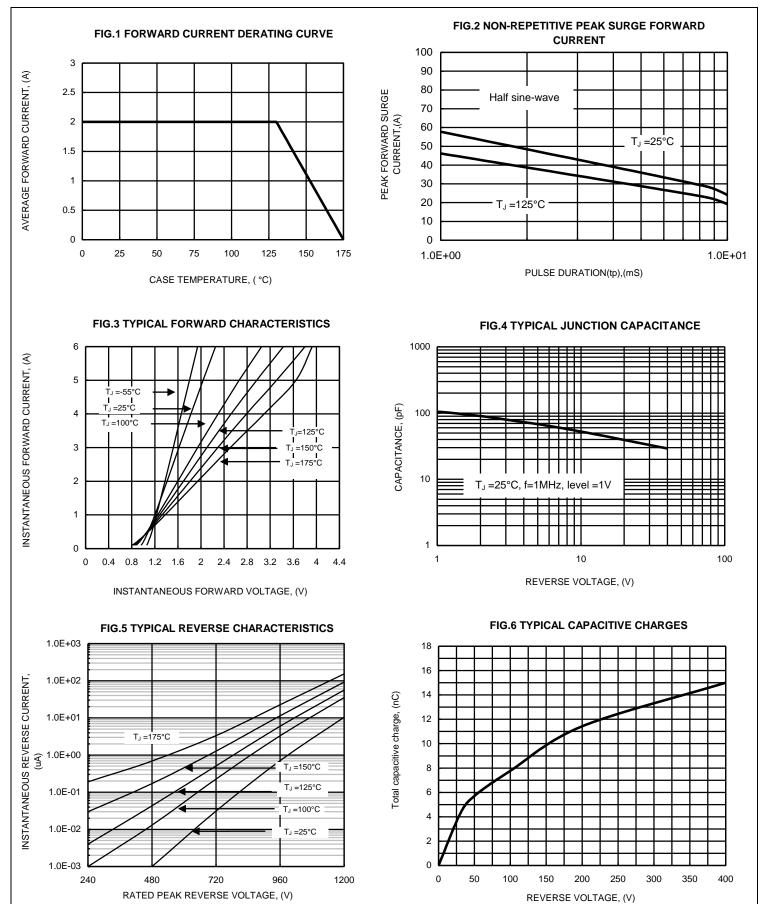
(3) Thermal resistance test performed in accordance with JESD-51.

(4) The unit mounted on copper PCBA (50 mm x 50 mm)

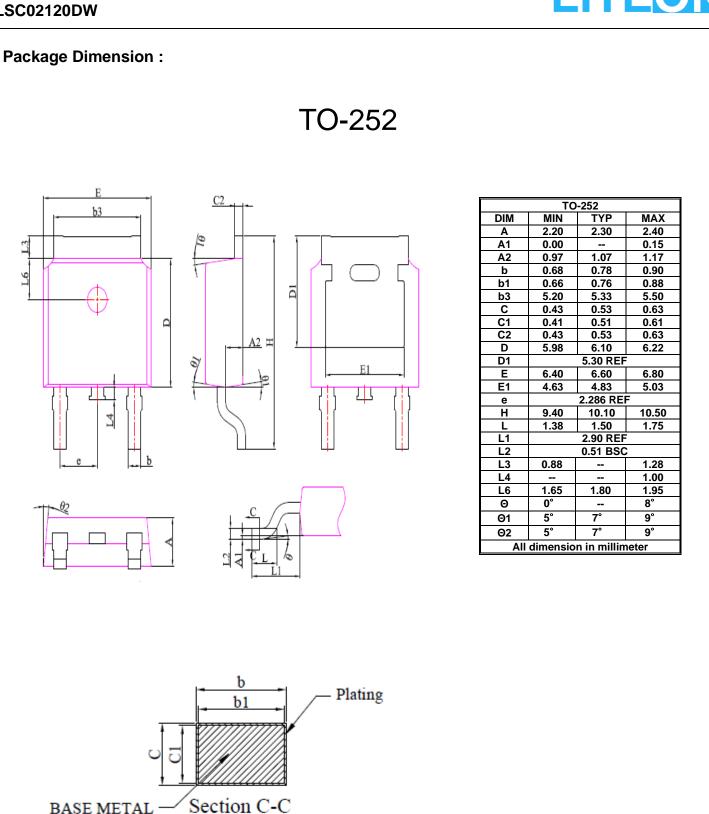
Please be aware that an **Important Notice and Disclaimer** concerning availability, disclaimers, and use in critical applications of LSC products thereto appears at the end of this Data Sheet.

### RATING AND CHARACTERISTIC CURVES LSC02120DW



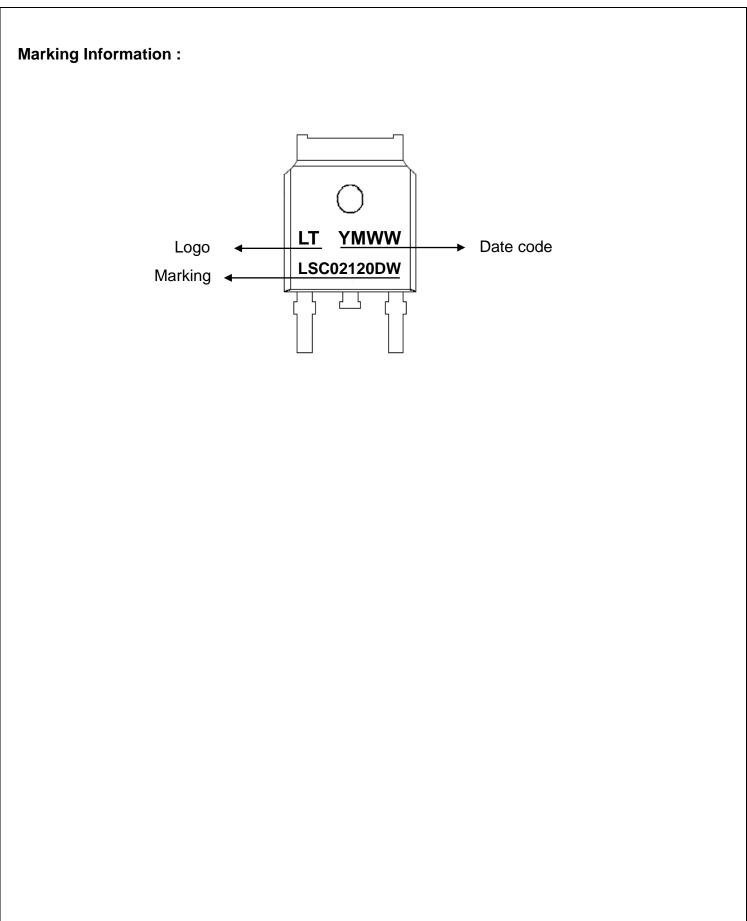


### **MECHANICAL AND MARKING INFORMATION LSC02120DW**



## MECHANICAL AND MARKING INFORMATION LSC02120DW





### LEGAL DISCLAIMER NOTICE

# 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.

ALL INFORMATION ARE PROVIDED AS-IS, EVEN IT HAS QUALIFIED BY THE AEC-Q101 WHICH SATISFY INDUSTRIAL APPLICATION REQUIREMENT, EXCEPT AS EXPRESSLY STATED IN THIS DATA SHEET IS APPLIED FOR AUTOMOTIVE GRADE, LSC MAKE NO WARRANTIES, REPRESENTATION OR GUARANTEE, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING, WITHOUT LIMITATION, REGARDING ANY MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE LSC TECHNOLOGY.

LSC DOES NOT ASSUME ANY LIABILITY OR COMPENSATION FOR ANY APPLICATION ASSISTANCE OR CUSTOMER PRODUCT DESIGN, AND MAKE NO WARRANTY 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.