



## **LITE-ON** SEMICONDUCTOR

# **MUR460D**

### SUPER FAST **REVERSE VOLTAGE – 600Volts GLASS PASSIVATED RECTIFIERS** FORWARD CURRENT – 4.0 Amperes **FEATURES DO-201AD** · Glass passivated chip · Super fast switching time for high efficiency В · Low forward voltage drop and high current capability · Low reverse leakage current Qualified according to AEC-Q101 Rev C Plastic material has UL flammability classification TD 94V-0 • Lead-Free Finish; RoHS Compliant (Notes 1 & 2) • Halogen and Antimony Free. "Green" Device (Note 3) DO-201AD **MECHANICAL DATA** Dim. Min. Max. Package: JEDEC DO-201AD molded plastic 25.4 A · Polarity : Color band denotes cathode 7.30 9.50 В • Weight: 0.04 ounce, 1.1 grams С 1.20 1.30 Mounting position: Any D 4.80 5.30 All Dimensions in millimeter MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS Ratings at 25°C ambient temperature unless otherwise specified.

PARAMETER			SYMBOL	MUR460D				UNIT
Maximum Repetitive Peak Reverse	Voltage		V <sub>RRM</sub>	600			V	
Maximum DC Blocking Voltage			V <sub>DC</sub>	600			V	
Average Rectified Output Current @TL=120°C			I <sub>F(AV)</sub>	4.0			А	
Peak Forward Surge Current 8.3ms single half sine-wave, Tj=25°C			I <sub>FSM</sub>	110			А	
$I^{2}t$ Rating for fusing (3ms $\leq t \leq 8.3$ ms)			l²t	50			A <sup>2</sup> S	
Operating and Storage Temperature Range			T <sub>J</sub> , T <sub>STG</sub>	-55 to +175			°C	
PARAMETER	TEST CO	NDITIONS	SYMBOL	Min.	Typ. Max.		UNIT	
Forward Voltage (4)	IF=4A	Tj=25°C	V <sub>F</sub>				1.28	V
Maximum DC Reverse Current	VR=600V	Tj=25°C Tj=150°C	I <sub>R</sub>				10 250	uA
Reverse Recovery Time (Note4)	Reverse Recovery Time (Note4)						50	ns
Single pulse avalanche energy @15mH			E <sub>AS</sub>				10.8	mJ
THERMAL CHARACTERISTIC			SYMBOL	Typical			UNIT	
Typical Junction Capacitance per element (Note 5)			Cj	40			pF	
Typical thermal Resistance, Junction to Lead (Note 6)			R <sub>ojl</sub>	11			°C/W	
Note:						REV	3, Nov-2021, KD	GF10

#### 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.

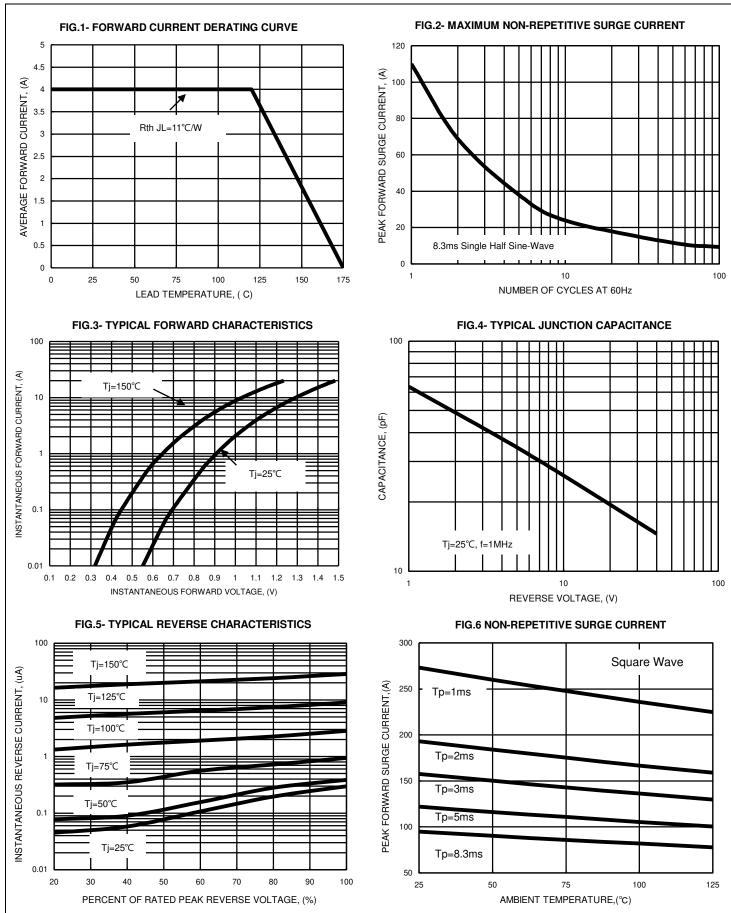
Measured with IF=0.5A,IR=1A,IRR=0.25A.

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

6. Measured point from body 1mm by lead.



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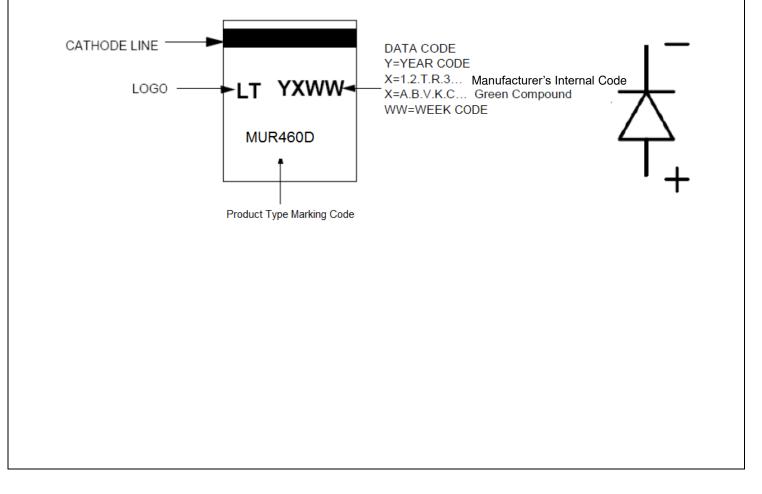


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## **Ordering Information :**

Part Number	Pookogo	Packing			
	Package	Qty.	Carrier		
MUR460D	DO-201AD	1200	Tape & Reel		
MUR460D_FR	DO-201AD	500	Bulk Box		

## Marking Information :





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