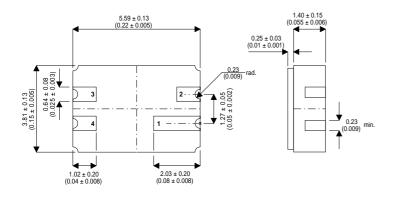


## MURS120CSM4

#### **MECHANICAL DATA**

Dimensions in mm (inches)



#### (LCC3 PACKAGE) Underside View

PAD 1 — Cathode PAD 3 — No Connection

PAD 2 — No Connection PAD 4 — Anode

# ULTRAFAST POWER RECTIFIER DIODE IN CERAMIC SURFACE MOUNT PACKAGE

#### **FEATURES**

- HERMETICALLY SEALED
- LIGHTWEIGHT
- SCREENING OPTIONS AVAILABLE

#### **APPLICATIONS:**

Ideally suited for high voltage, high frequency rectification in surface mount applications where size and weight are critical

### **ABSOLUTE MAXIMUM RATINGS** (T<sub>case</sub> = 25°C unless otherwise stated)

$V_{RRM}$	Peak Repetitive Reverse Voltage	200
I <sub>F(AV)</sub>	Average Rectified Forward Current	1
$I_{FSM}$	Non-Repetitive Peak Surge Current	40
$T_{stg}$	Storage Temperature Range	-65 to +175 °C
$T_{j}$	Maximum Junction Temperature	+150°C
$R_{\theta JC}$	Thermal Resistance Junction To Case	20°C/W

## **CHARACTERISTICS** ( $T_{case} = 25^{\circ}C$ unless otherwise stated)

	Parameter	Test Conditions		Min.	Тур.	Max.	Unit
V <sub>F</sub>	Forward Voltage Drop*	I <sub>F</sub> = 1A				0.90	V
			$T_J = 150$ °C			0.75	
I <sub>R</sub>	Reverse Current*	V <sub>R</sub> = 200 V	·			2	μА
			$T_J = 150$ °C			50	
t <sub>rr</sub>	Maximum Reverse Recovery Time	$I_F = 0.5A$	$\delta i/\delta t = 50 \text{ A/}\mu\text{S}$			35	ns
t <sub>fr</sub>	Maximum Forward Recovery Time	I <sub>F</sub> = 1A	$\delta i/\delta t = 100 \text{ A/}\mu\text{S}$			25	115

<sup>\*</sup>Pulse test tp=300μs δ≤2%

Semelab Plc reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by Semelab is believed to be both accurate and reliable at the time of going to press. However Semelab assumes no responsibility for any errors or omissions discovered in its use. Semelab encourages customers to verify that datasheets are current before placing orders.

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