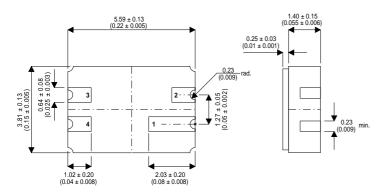
# **MECHANICAL DATA** Dimensions in mm (inches)



#### LCC3 PACKAGE (MO-041BA) Underside View

PAD 1 — Cathode	PAD 3 — No Connection
PAD 2 — No Connection	PAD 4 — Anode

## HIGH EFFICIENCY POWER RECTIFIER IN A CERAMIC SURFACE MOUNT PACKAGE

## FEATURES

- Ceramic Surface Mount Package
- V<sub>RRM</sub> = >100V
- I<sub>F(AV)</sub> = 2.5A
- Screening Options Available

ABSOLI	JTE MAXIMUM RATINGS (T <sub>case</sub> = 25°C unless otherwise stated)	<b>IMUM RATINGS</b> (T <sub>case</sub> = 25°C unless otherwise stated) 1N5804		
V <sub>RRM</sub>	Maximum Repetitive Peak Reverse Voltage	100V	150V	
V <sub>WRM</sub>	Maximum Working Peak Reverse Voltage	100V	150V	
I <sub>F(AV)</sub>	Maximum Average Forward Current	2.5A		
I <sub>FSM</sub>	Maximum Forward Surge Current (Limited by Package)	35A		
T <sub>stg</sub>	Storage Temperature Range	−65 to +200°C		
ТJ	Maximum Operating Junction Temperature	+175°C		
$R_{ extsf{ heta}JC}$	Thermal Resistance (Junction-Case)	20°C/W		

#### ELECTRICAL CHARACTERISTICS T<sub>amb</sub> = 25°C

	Parameter	Test Conditions	Min.	Тур.	Max.	Unit
V <sub>F</sub>	Maximum Forward Voltage	I <sub>F</sub> = 1A			0.875	V
I <sub>R</sub>	Maximum Reverse Current	V <sub>RR</sub> = V <sub>RRM,</sub> T <sub>J</sub> = 25°C			1.0	μA
CJ	Maximum Junction Capacitance	V <sub>R</sub> = -5V, f = 1MHZ			25	pF
		I <sub>F</sub> = 1.0A to I <sub>RRM</sub> = 1.0A			25	nS
<sup>t</sup> rr		Recovers to I <sub>RR</sub> = 0.1A				

Semelab PIc 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.

## 1N5804CSM4 1N5806CSM4

