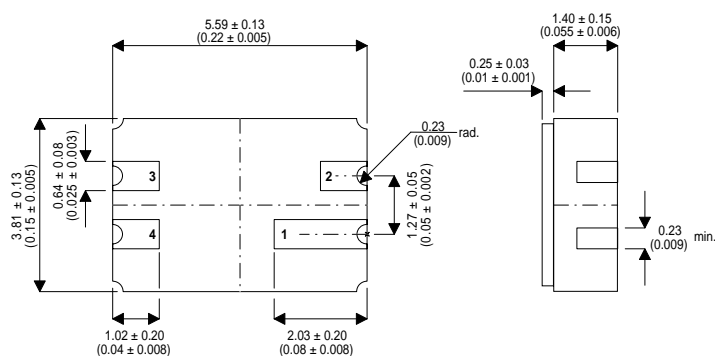


**MECHANICAL DATA**

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
- $V_{RRM} = >100V$
- $I_{F(AV)} = 2.5A$
- Screening Options Available

<b>ABSOLUTE MAXIMUM RATINGS</b> ( $T_{case} = 25^{\circ}C$ unless otherwise stated)		1N5804	1N5806
$V_{RRM}$	Maximum Repetitive Peak Reverse Voltage	100V	150V
$V_{WRM}$	Maximum Working Peak Reverse Voltage	100V	150V
$I_{F(AV)}$	Maximum Average Forward Current	2.5A	
$I_{FSM}$	Maximum Forward Surge Current (Limited by Package)	35A	
$T_{stg}$	Storage Temperature Range	-65 to +200°C	
$T_J$	Maximum Operating Junction Temperature	+175°C	
$R_{\theta JC}$	Thermal Resistance (Junction-Case)	20°C/W	

**ELECTRICAL CHARACTERISTICS**  $T_{amb} = 25^{\circ}C$

Parameter	Test Conditions	Min.	Typ.	Max.	Unit
$V_F$	Maximum Forward Voltage			0.875	V
$I_R$	Maximum Reverse Current			1.0	$\mu A$
$C_J$	Maximum Junction Capacitance			25	pF
$t_{rr}$	Maximum Reverse Recovery Time			25	nS

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.