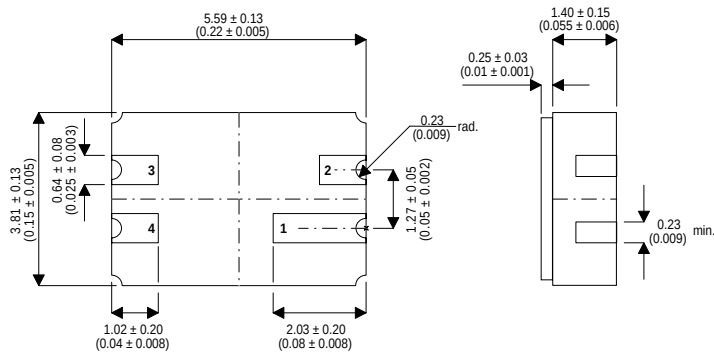


MECHANICAL DATA

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

ABSOLUTE MAXIMUM RATINGS ($T_{case} = 25^{\circ}C$ 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 $+200^{\circ}C$	
T_J	Maximum Operating Junction Temperature	$+175^{\circ}C$	
$R_{\theta JC}$	Thermal Resistance (Junction-Case)	$20^{\circ}C/W$	

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	μA
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.