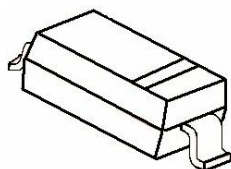


SOD-123

Marking: R4
Features

- High Current Capability
- Low Forward Voltage Drop

Mechanical Data

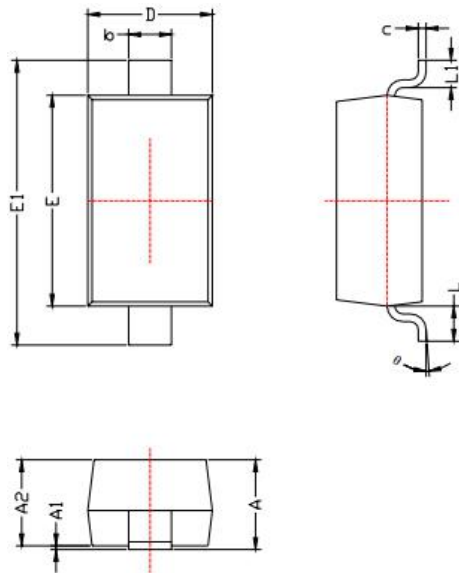
- SOD-123 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Epoxy UL: 94V-0
- Mounting Position: Any

Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	MBR0540T1G-CN	Unit
Maximum repetitive peak reverse voltage	VRRM	40	V
Maximum RMS voltage	VRMS	28	V
Maximum DC blocking voltage	VDC	40	V
Maximum average forward rectified current	IFM	0.5	A
Peak forward surge current 8.3 ms single half sine-wave	IFSM	5.5	A
Typical thermal resistance	RθJA	244	°C/W
Power Dissipation	PD	410	mW
Junction temperature	Tj	125	°C
Storage temperature range	TSTG	-50-+150	°C

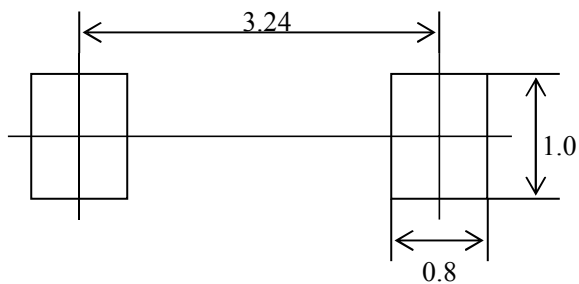
Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified).

Parameters	Symbol	Test conditions	MBR0540T1G-CN	Unit
Maximum forward voltage	VF	IF = 0.5A	0.55	V
Maximum reverse current	IR	VR=20V	---	uA
		VR=30V	---	
		VR=40V	80	
		VR=60V	---	
		VR=80V	---	
Capacitance between terminals	CT	VR = 4V, f = 1MHz	30	pF

SOD-123 PACKAGE OUTLINE Plastic surface mounted package


SYMBOL	DIMENSIONS	
	MIN.	MAX.
A	1.050	1.250
A1	0.000	0.100
A2	1.050	1.150
b	0.450	0.650
c	0.080	0.150
D	1.500	1.700
E	2.600	2.800
E1	3.550	3.850
L	0.500REF	
L1	0.250	0.450
θ	0°	8°

焊盘设计参考Precautions: PCB Design(Recommended land dimensions for SOD-123 diode. Electrode patterns for PCBs)



中心距: 3.24
 脚 宽 : 0.55
 焊盘宽: 1.00
 脚 长 : 0.50
 焊盘长: 0.80

技术要求:

- 1, 塑封体尺寸: 2.70 X 1.60
- 2: 未注公差为: ± 0.05
- 3, 所有单位: mm

NOTICE

The information presented in this document is for reference only. Involving product optimization and productivity improvement, ChipNobo reserves the right to adjust product indicators and upgrade some technical parameters. ChipNobo is entitled to be exempted from liability for any delay or non-delivery of the information disclosure process that occurs.

本文件中提供的信息仅供参考。涉及产品优化和生产效率改善，ChipNobo 有权调整产品指标和部分技术参数的升级，所出现信息披露过程存在延后或者不能送达的情形，ChipNobo 有获免责权。

The product listed herein is designed to be used with residential and commercial equipment, and do not support sensitive items and specialized equipment in areas where sanctions do exist. ChipNobo Co., Ltd or anyone on its behalf, assumes no responsibility or liability for any damages resulting from improper use.

此处列出的产品旨在民用和商业设备上使用，不支持确有制裁地区的敏感项目和特殊设备，ChipNobo 有限公司或其代表，对因不当使用而造成的任何损害不承担任何责任。

For additional information, please visit our website <http://www.chipnobo.com>, or consult your nearest Chipnobo sales office for further assistance.

欲了解更多信息，请访问我们的网站 <http://www.chipnobo.com>，或咨询离您最近的 Chipnobo 销售办事处以获得进一步帮助。