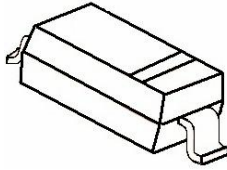


SOD-123

SOD-123 Plastic-Encapsulate Schottky Barrier Diode



Marking: MBR0520:R2
MBR0530: R3
MBR0540: R4
MBR0560: R6
MBR0580: R8

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

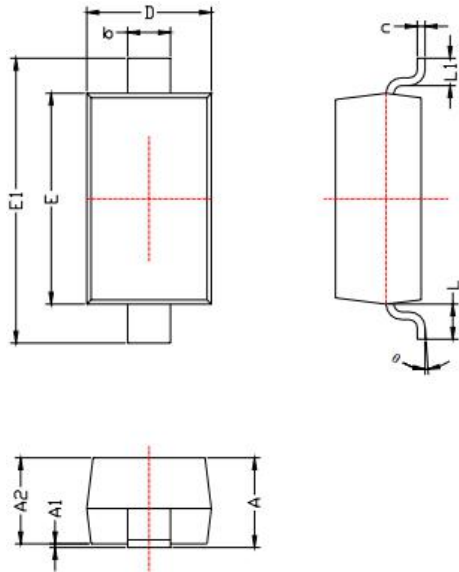
Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	MBR 0520	MBR 0530	MBR 0540	MBR 0560	MBR 0580	Unit
Maximum repetitive peak reverse voltage	VRRM	20	30	40	60	80	V
Maximum RMS voltage	VRMS	14	21	28	42	56	V
Maximum DC blocking voltage	VDC	20	30	40	60	80	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).

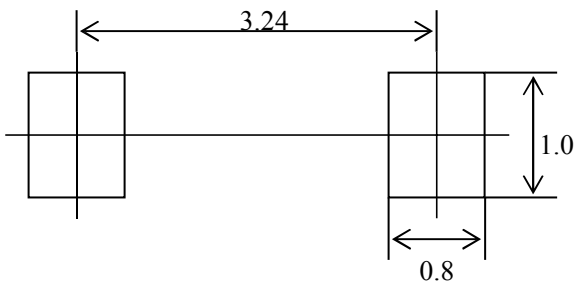
Parameters	Symbol	Test conditions	MBR 0520	MBR 0530	MBR 0540	MBR 0560	MBR 0580	Unit
Maximum forward voltage	VF	IF = 0.5A	0.45	0.55	0.55	0.70	0.80	V
Maximum reverse current	IR	VR=20V	80	---	---	---	---	uA
		VR=30V	---	80	---	---		
		VR=40V	---	---	80	---		
		VR=60V	---	---	---	80		
Maximum reverse current	IR	VR=80V	---	---	---	---	80	uA
		VR=80V	---	---	---	---	80	
Capacitance between terminals	CT	VR = 4V, f = 1MHz	30	30	30	30	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