

MBR0520-MBR0580 SOD-123 Plastic-Encapsulate Schottky Barrier Diode

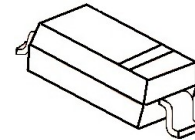
Features

- 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

SOD-123

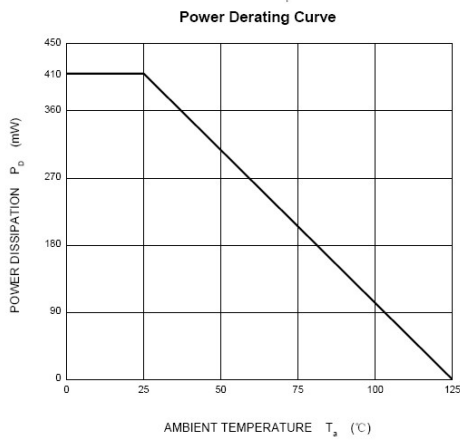
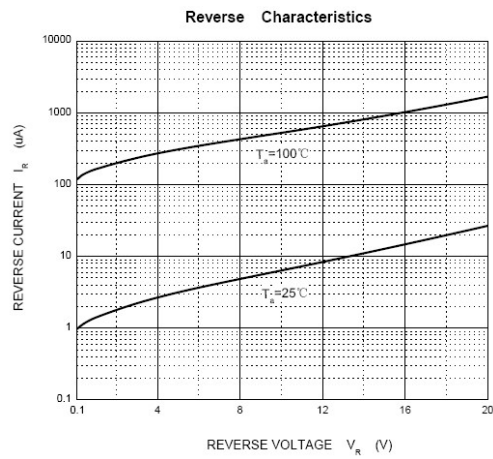
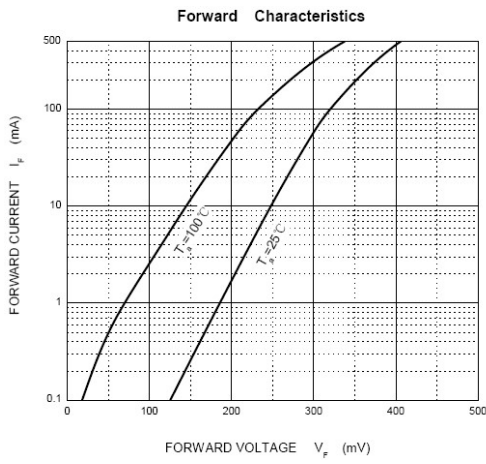


Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

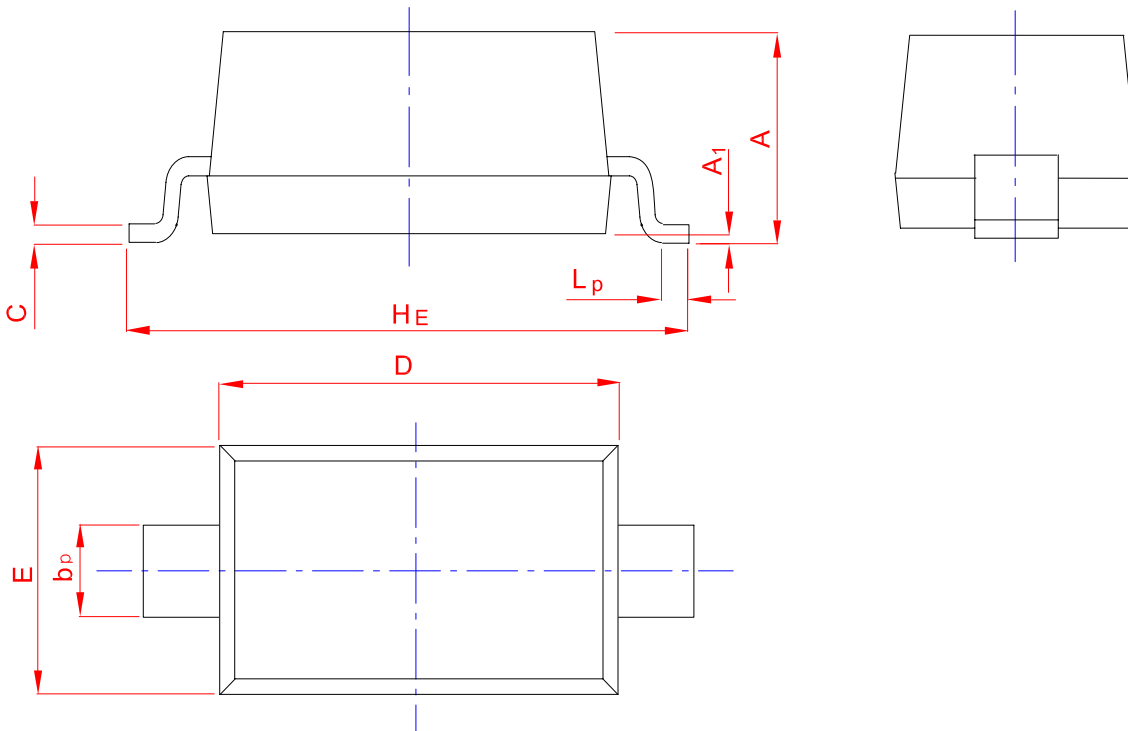
Parameters	Symbol	MBR 0520	MBR 0530	MBR 0540	MBR 0560	MBR 0580	Unit
Maximum repetitive peak reverse voltage	VRRM	20	30	40	60	80	V
Maximum RMS voltage	VRMS	14	21	28	42	56	V
Maximum DC blocking voltage	VDC	20	30	40	60	80	V
Maximum average forward rectified current	IFM	0.5					A
Peak forward surge current 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	---	
		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



UNIT	A	bp	C	D	E	HE	A1	Lp
mm	1.25	0.65	0.15	2.80	1.70	3.85	0.10	0.50
	0.90	0.45	0.08	2.55	1.50	3.55	0.01	0.20