

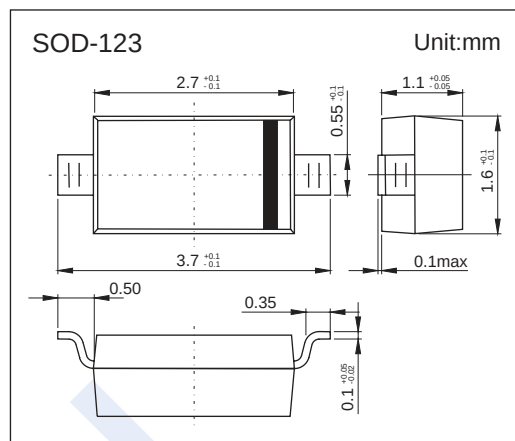
Schottky Rectifier

MBR0520 ~ MBR05100

(KBR0520 ~ KBR05100)

■ Features

- High Current Capability
- Extremely Low Thermal Resistance
- For Surface Mount Application
- Higher Temp Soldering: 250 °C for 10 Seconds At Terminals
- Low Forward Voltage



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	MBR 0520	MBR 0530	MBR 0540	MBR 0560	MBR 0580	MBR 05100	Unit
Repetitive Peak Reverse Voltage	V _{RRM}	20	30	40	60	80	100	V
RMS Voltage	V _{RMS}	14	21	28	42	56	70	
Maximum DC Blocking Voltage	V _{DC}	20	30	40	60	80	100	
Forward Voltage I _{FM} =0.5A	V _F	0.45	0.55		0.7	0.8		
Averaged Forward Current.T _J =115℃	I _{FAV}	0.5						A
Peak Forward Surge Current @ 8.3ms	I _{FSM}	5.5						
Maximum DC Reverse Current T _J =25℃	I _R	0.2						mA
Typical Junction Capacitance *1	C _j	30						pF
Thermal Resistance Junction to Lead	R _{θJL}	5						℃/W
Junction Temperature	T _j	150						℃
Storage Temperature	T _{stg}	-55 to 150						

* 1 Measured at 1MHz and applied reverse voltage of 4V D.C

■ Marking

NO.	MBR0520	MBR0530	MBR0540	MBR0560	MBR0580	MBR05100
Marking	B2	B3	B4	B6	B8	BA

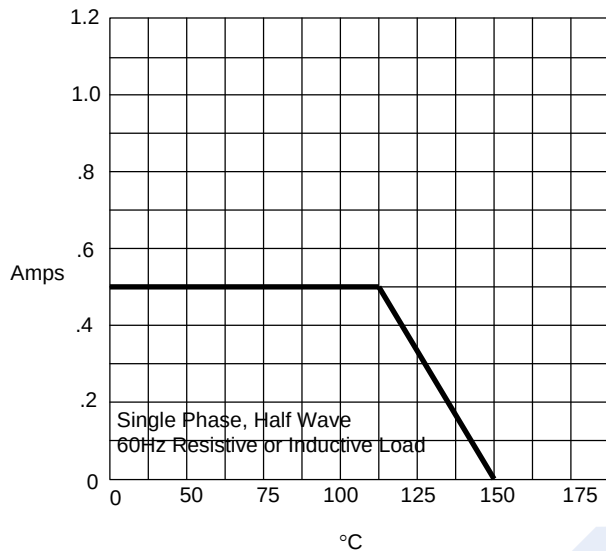
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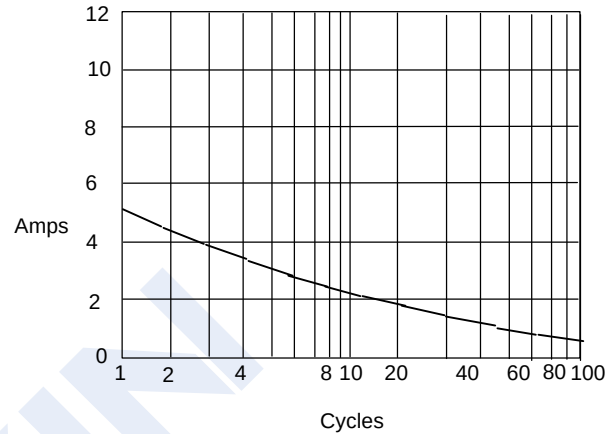
■ Typical Characteristics

Figure 1
Forward Derating Curve



Average Forward Rectified Current - Amperes versus
Ambient Temperature - °C

Figure 2
Peak Forward Surge Current



Peak Forward Surge Current - Amperes versus
Number Of Cycles At 60Hz - Cycles