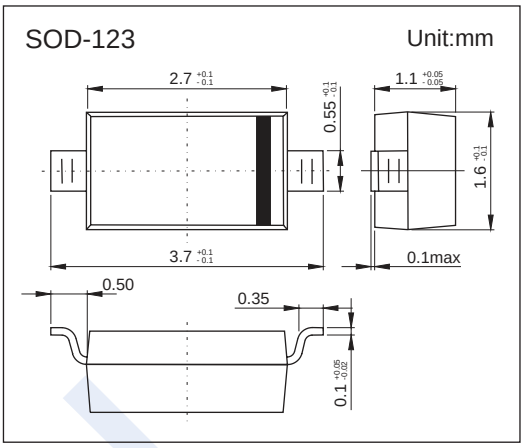
Schottky Rectifier
MBR0520 ~ MBR05100
(KBR0520 ~ KBR05100)



■ 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℃

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	Cj	30						pF
Thermal Resistance Junction to Lead	$R_{\theta JL}$	5						℃/W
Junction Temperature	Tj	150						℃
Storage Temperature	Tstg	-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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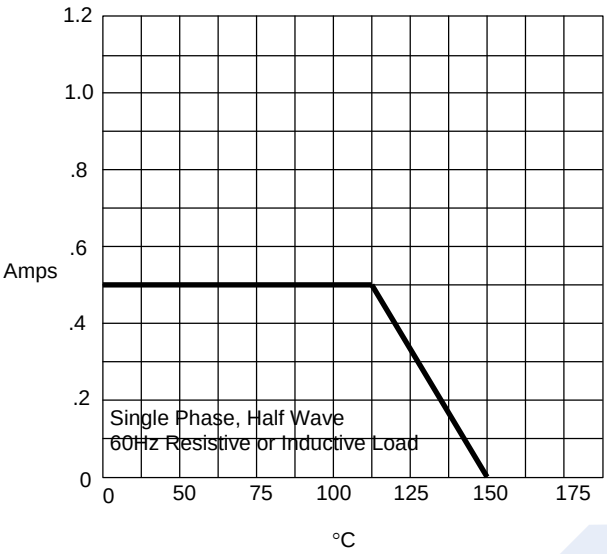
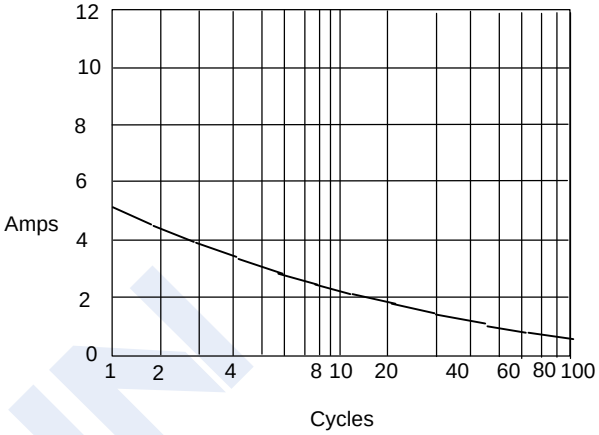
■ Typical Characterisitics

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