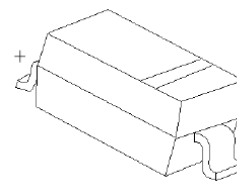


SOD-123 Plastic-Encapsulate Diodes

MBR0520-MBR0580 Schottky Barrier Diode

SOD-123



FEATURES:

- Lead Free Finish/RoHS Compliant
- Extremely Low Thermal Resistance
- For Surface Mount Application and High Current Capability

MARKING:

MBR0520:R2

MBR0530:R3

MBR0540:R4

MBR0560:R6

MBR0580:R8

Maximum Ratings @T_a=25°C

Parameter	Symbol	MBR 0520	MBR 0530	MBR 0540	MBR 0560	MBR 0580	Unit
Maximum recurrent peak reverse voltage	V _{RRM}	20	30	40	60	80	V
Maximum RMS voltage	V _{RMS}	14	21	28	42	56	
Mean rectifying current	I _O	0.5					A
Peak forward surge current	I _{FSM}	5.5					A
Power Dissipation	P _d	410					mW
Thermal Resistance Junction to Ambient	R _{θJA}	244					°C/W
Junction temperature	T _j	125					°C
Storage temperature	T _{stg}	-55~+150					°C

Electrical Ratings @T_a=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Conditions
Forward voltage	V _F				V	I _F =500mA
MBR0520				0.45		
MBR0530				0.55		
MBR0540				0.55		
MBR0560				0.70		
MBR0580				0.80		
Reverse current	I _R			80	μA	V _R =20V V _R =30V V _R =40V V _R =60V V _R =80V
MBR0520						
MBR0530						
MBR0540						
MBR0560						
MBR0580						
Capacitance between terminals	C _T		30		pF	V _R =4V, f=1MHZ