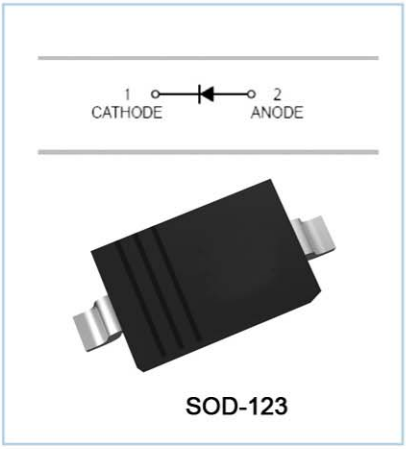
B0520W/B0530W/0540W

FEATURES

- Low Forward Voltage Drop.
- Guard Ring Construction For Transient Protection.
- Negligible Reverse Recovery Time.
- Low Reverse Capacitance.



SOD-123

APPLICATIONS

- Schotty barrier switching.

ORDERING INFORMATION

Type No.	Marking	Package Code
B0520W	SD	SOD-123
B0530W	SE	SOD-123
B0540W	SF	SOD-123

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

Parameter	Symbol	B0540W	B0530W	B0520W	Unit
Peak Repetitive Peak reverse voltage Working Peak DC Reverse Voltage	V_{RR} V_{RWM} V_R	40	30	20	V
RMS Reverse Voltage	$V_{R(RMS)}$	28	21	14	V
Forward Continuous Current	I_F	350			mA
Repetitive Peak Forward Current @t≤1.0s	I_{FRM}	1.5			A
Power Dissipation	P_d	400			mW
Thermal Resistance Junction to Ambient	$R_{\theta jA}$	300			℃/W
Storage temperature	T_{stg}	-65~+125			℃

ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

B0520W/B0530W/0540W

Parameter		Symbol	Min.	Typ.	Max.	Unit	Conditions
Reverse Breakdown Voltage	B0540W	$V_{(BR)R}$	40			V	I_R=10μA
	B0530W		30				I_R=10μA
	B0520W		20				I_R=10μA
Forward voltage		V_F			0.37	V	I_F=20mA
					0.60		I_F=200mA
Reverse current	B0540W	I_{RM}			5.0	μA	V_R=30V
	B0530W						V_R=20V
	B0520W						V_R=10V
Capacitance between terminals		C_T		50		pF	V_R=0,f=1MHz
Reverse Recovery Time		t_{rr}		10		ns	I_R=I_F=200mA I_{rr}=0.1*I_R,R_L=100Ω

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

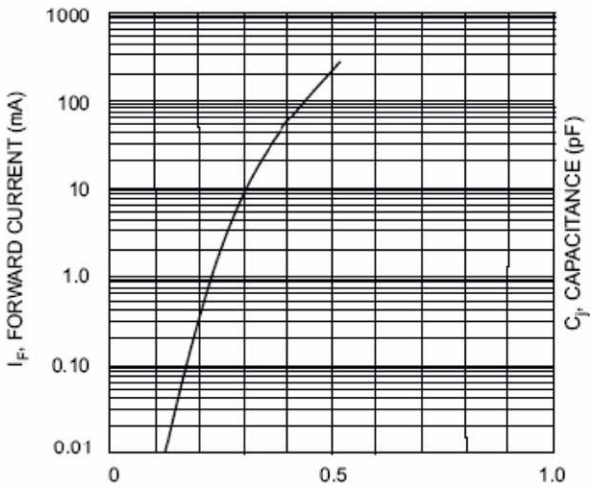


Fig. 1 Typical Forward Characteristics

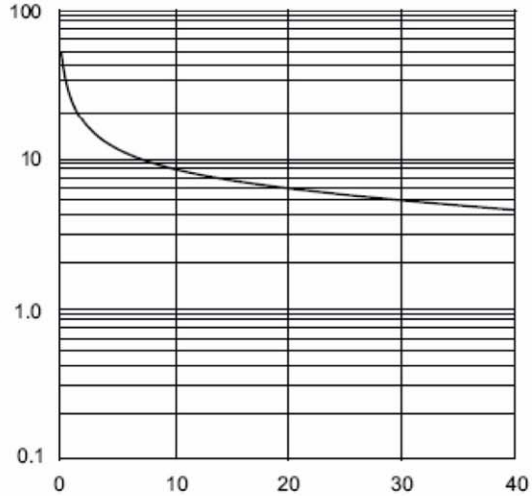


Fig. 2 Typ. Junction Capacitance vs Reverse Voltage