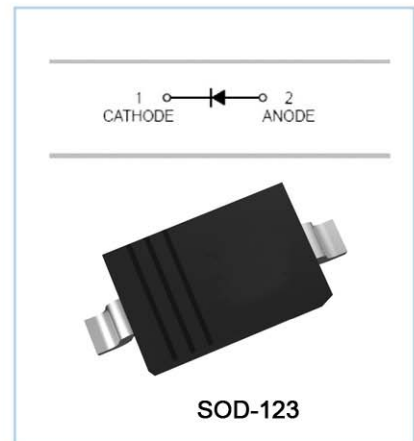


## FEATURES

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

## APPLICATIONS

- Schottky 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°C unless otherwise specified

Parameter	Symbol	B0540W	B0530W	B0520W	Unit
Peak Repetitive Peak reverse voltage	$V_{RR}$				
Working Peak DC Reverse Voltage	$V_{RWM}$	40	30	20	V
	$V_R$				
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			°C/W
Storage temperature	$T_{stg}$	-65~+125			°C

## ELECTRICAL CHARACTERISTICS @ Ta=25°C unless otherwise specified



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

## TYPICAL CHARACTERISTICS @ $T_a=25^\circ C$ unless otherwise specified

