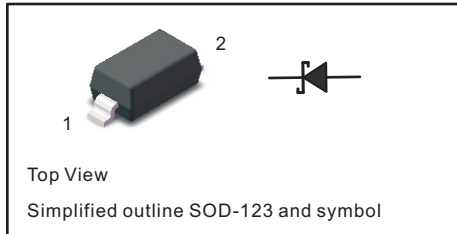


PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



FEATURES

- ◆ Low Forward Voltage Drop
- ◆ Guard Ring Construction for Transient Protection
- ◆ High Conductance
- ◆ Also Available in Lead Free Version

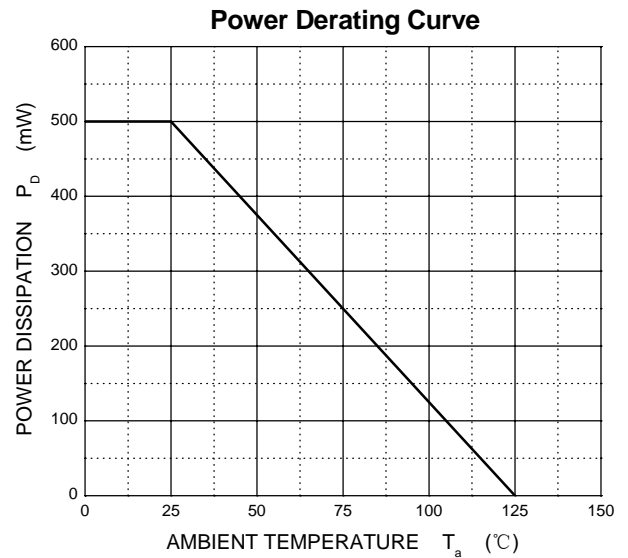
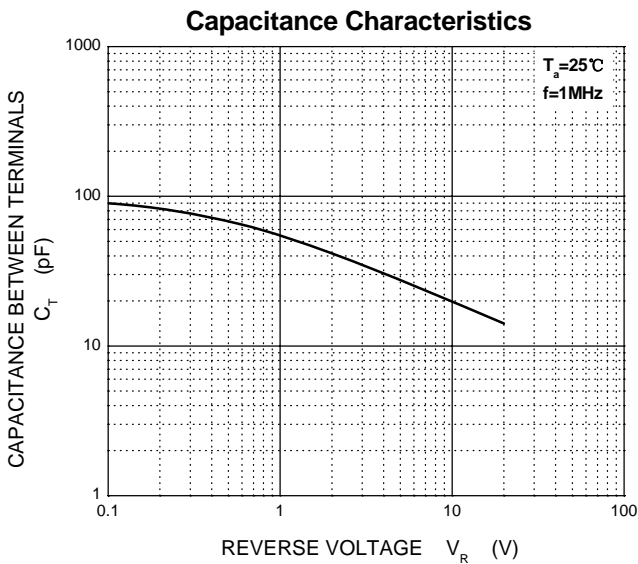
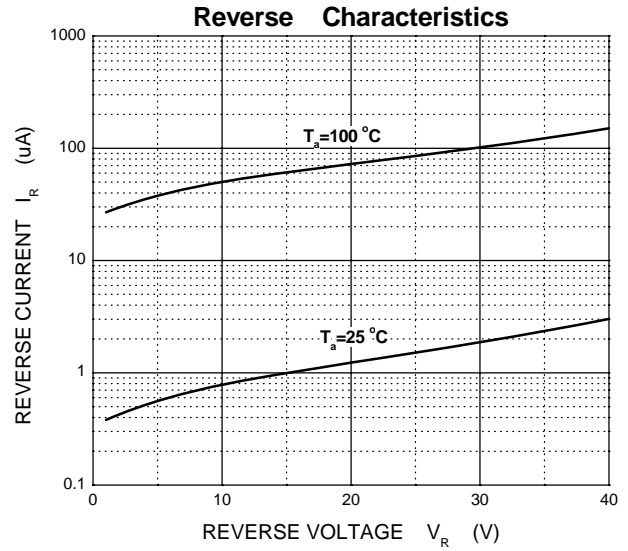
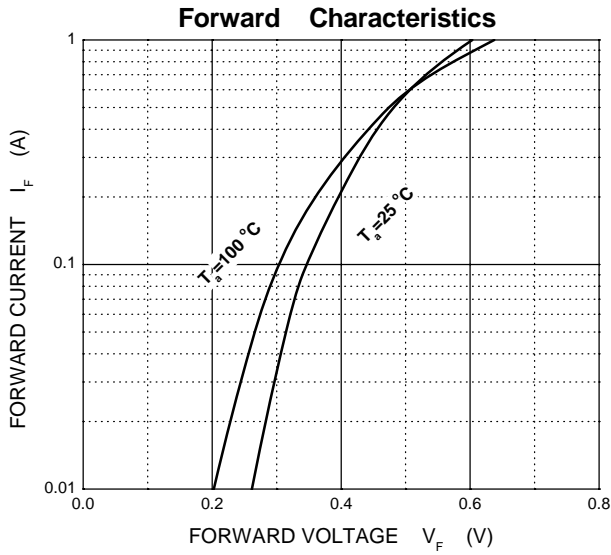
Maximum Ratings @Ta=25°C

Parameter	Symbol	B0520W	B0530W	B0540W	Unit
Peak repetitive peak reverse voltage	V_{RRM}				
Working peak reverse voltage	V_{RWM}	20	30	40	V
DC Blocking voltage	V_R				
RMS reverse voltage reverse voltage (DC)	$V_{R(RMS)}$	14	21	28	V
Average rectified output current	I_o		0.5		A
Forward surge current peak	I_{FSM}		5.5		A
Power dissipation	P_D		500		mW
Thermal resistance junction to ambient	$R_{\theta JA}$		200		°C/W
Junction temperature	T_j		125		°C
Storage temperature	T_{STG}		-55~+150		°C
Voltage rate of change	dv/dt		1000		V/ μ S

Electrical Characteristics @Ta=25°C

Parameter	Symbol	B0520W	B0530W	B0540W	Unit	Conditions
Minimum reverse breakdown voltage	$V_{(BR)R}$	20	--	--	V	$I_R=250\mu A$
		--	30	--		$I_R=130\mu A$
		--	--	40		$I_R=20\mu A$
Forward voltage	V_{F1}	0.35	0.375	--	V	$I_F=0.1A$
	V_{F2}	0.43	0.430	0.510		$I_F=0.5A$
	V_{F3}	--	--	0.62		$I_F=1A$
Reverse current	I_{R1}	75	--	--	μA	$V_R=10V$
	I_{R2}	--	20	--		$V_R=15V$
Reverse current	I_{R3}	250	--	10	μA	$V_R=20V$
	I_{R4}	--	130	--		$V_R=30V$
	I_{R5}	--	--	20		$V_R=40V$
Capacitance between terminals	C_T	--	--	170	pF	$V_R=0, f=1MHz$

Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-123

