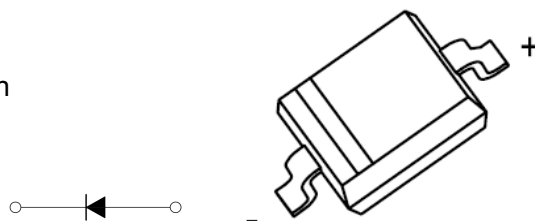


SCHOTTKY BARRIER DIODE

FEATURES

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

MARKING:SD



SOD-323

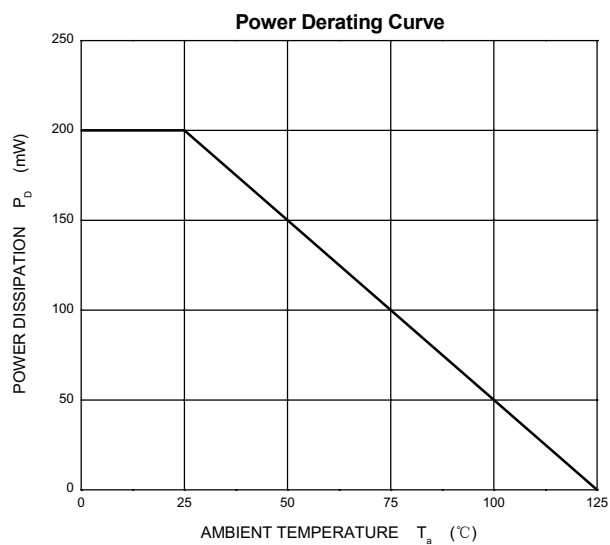
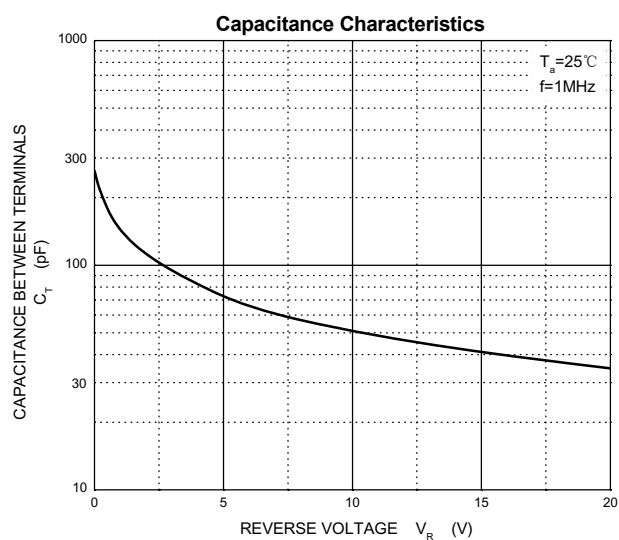
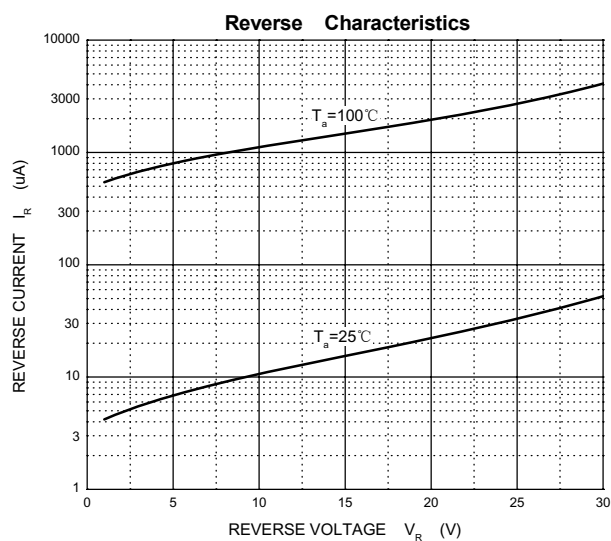
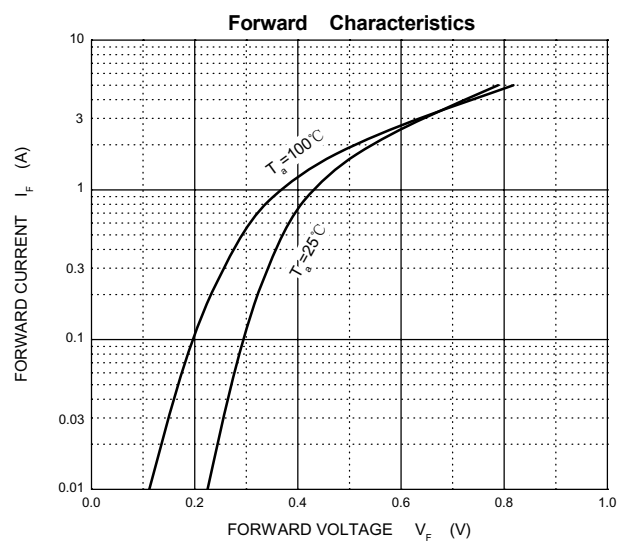
Maximum Ratings @Ta=25°C

Parameter	Symbol	B0520WS	Unit
Peak repetitive peak reverse voltage	V_{RRM}	20	V
Working peak reverse voltage	V_{RWM}		
DC blocking voltage	V_R		
RMS reverse voltage reverse voltage (DC)	$V_{R(RMS)}$	14	
Average rectified output current	I_o	0.5	A
Non-repetitive Peak Forward Surge Current @t=8.3ms	I_{FSM}	5.5	A
Power dissipation	P_D	200	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	500	°C/W
Junction temperature	T_j	125	°C
Storage temperature	T_{STG}	-55~+150	°C
Voltage rate of change	dv/dt	1000	V/μs

Electrical Characteristics @Ta=25°C

Parameter Sy	mbol	B0520WS	Unit	Conditions
Minimum reverse b-reakdown voltage	$V_{(BR)}$	20	V	$I_R=250\mu A$
		--		$I_R=500\mu A$
		--		$I_R=20\mu A$
Forward voltage	V_{F1}	0.33	V	$I_F=0.1A$
	V_{F2}	0.39		$I_F=0.5A$
	V_{F3}	--		$I_F=1A$
Reverse current	I_{R1}	75	μA	$V_R=10V$
	I_{R2}	--		$V_R=15V$
Reverse current	I_{R3}	250	μA	$V_R=20V$
	I_{R4}	--		$V_R=30V$
	I_{R5}	--		$V_R=40V$
Capacitance between terminals	C_T	170	pF	$V_R=0, f=1MHz$

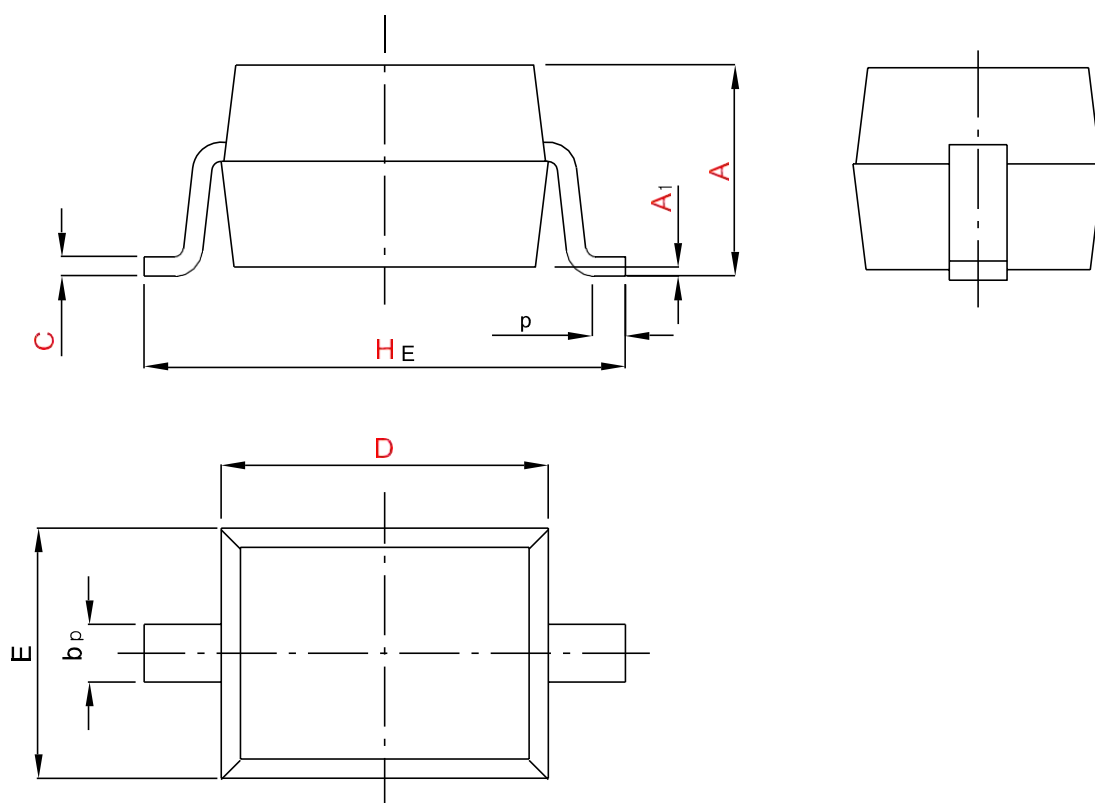
Typical Characteristics



PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD 323



UNIT	A	bp	C	D	E	HE	A1	Lp
mm	1.20 0.90	0.40 0.25	0.15 0.10	1.80 1.60	1.35 1.15	2.80 2.30	0.10 0.01	0.50 0.20

