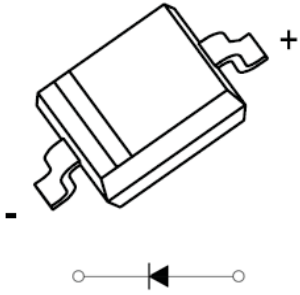


Schottky Barrier Diode	
<p>SOD-323</p>  <p>Marking : S31</p>	<p>FEATURES</p> <ul style="list-style-type: none"> ● Low current rectifier schottky diode ● Low voltage, low inductance ● For power supply

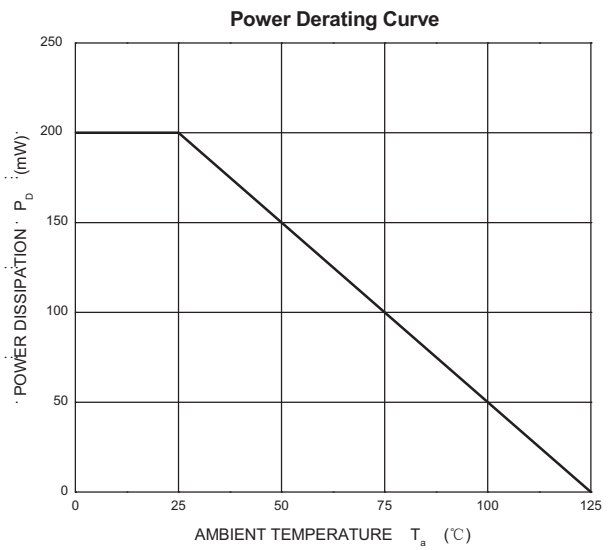
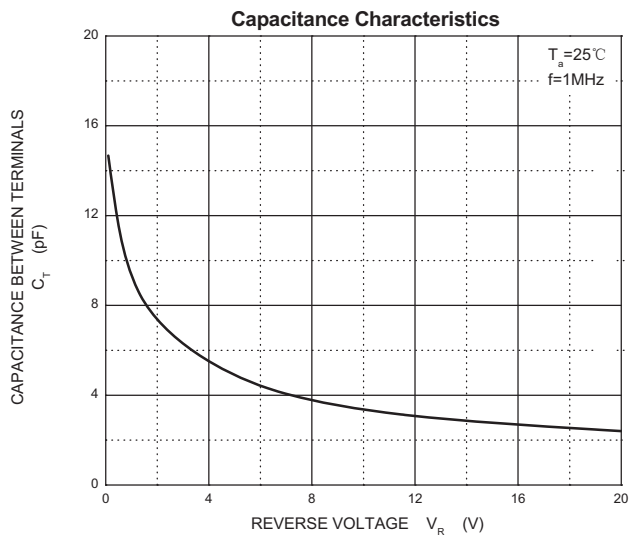
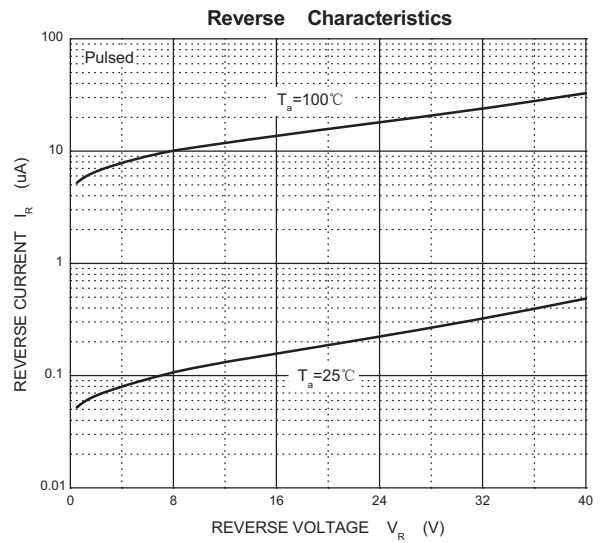
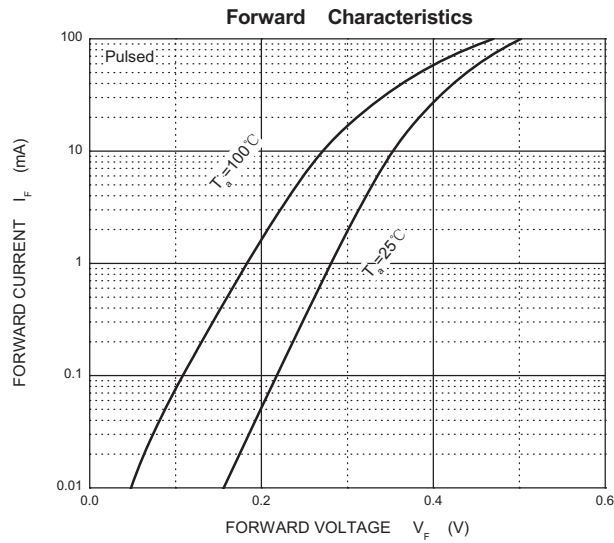
Maximum Ratings and Electrical Characteristics, Single Diode @Ta=25°C

Parameter	Symbol	Limit	Unit
Peak reverse voltage	V_{RM}	45	V
DC reverse voltage	V_R	40	V
Mean rectifying current	I_O	0.1	A
Non-repetitive Peak Forward Surge Current@t=8.3ms	I_{FSM}	1	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

Electrical Ratings @Ta=25°C

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_F			0.35	V	$I_F=1mA$
Forward voltage	V_F			0.45	V	$I_F=10mA$
Forward voltage	V_F			0.60	V	$I_F=100mA$
Reverse current	I_R			5	μA	$V_R=40V$
Capacitance between terminals	C_T			25	pF	$V_R=0V, f=1MHz$

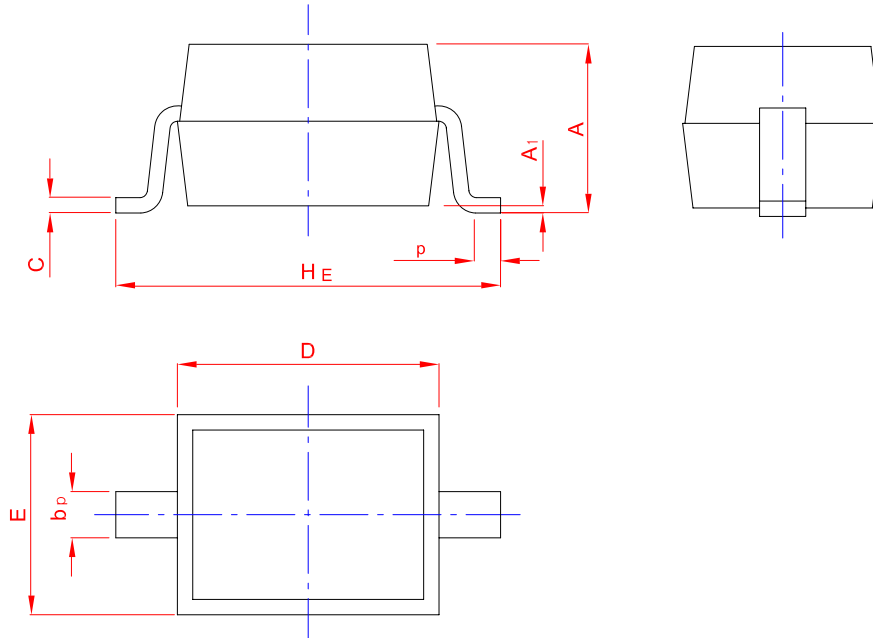
Typical Characteristics



PACKAGE OUTLINE

SOD-323

Plastic surface mounted package; 2 leads



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