

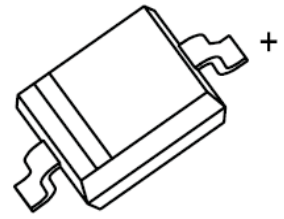


1SS357 Schottky Barrier Diode

FEATURES

- Low current rectifier schottky diode
- Low voltage, low inductance
- For power supply

Marking : S31



SOD-323

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

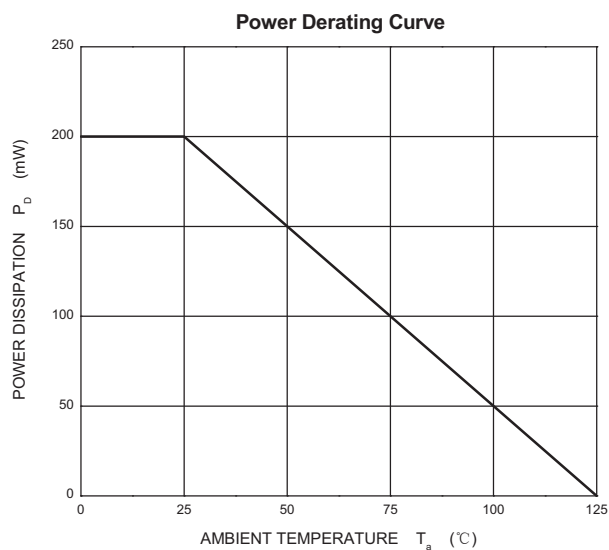
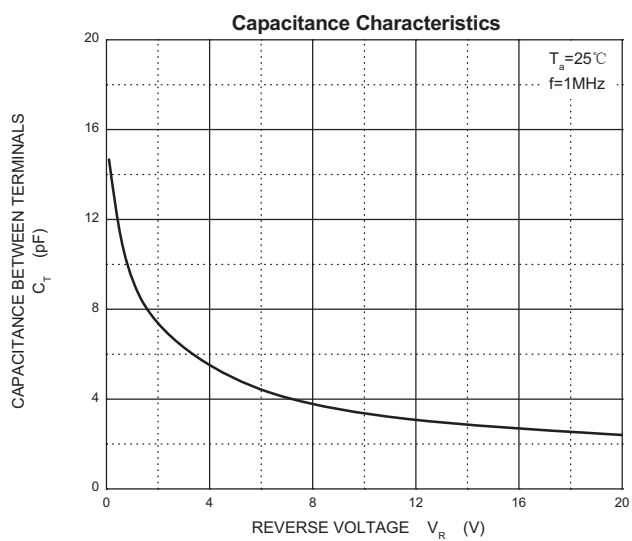
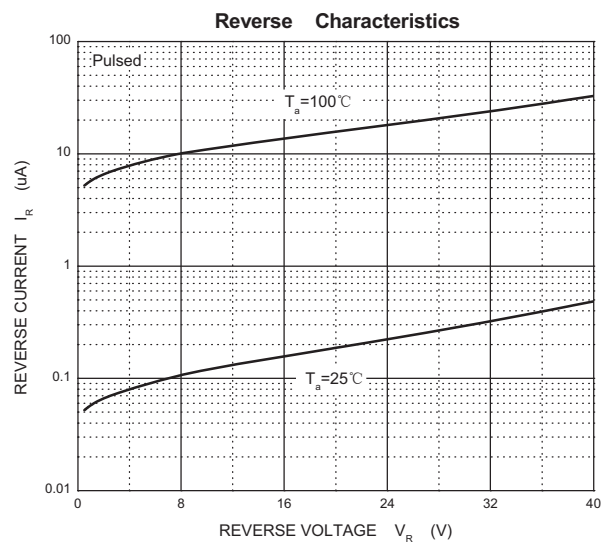
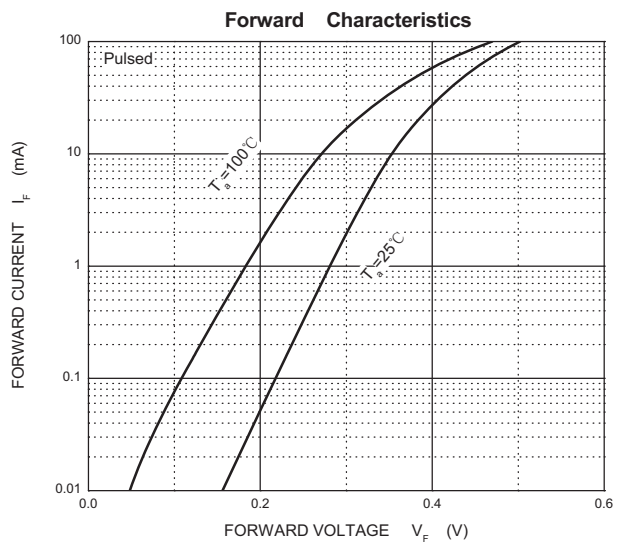
Parameter	Symbol	Limit	Unit
Peak reverse voltage	V_{RM}	45	V
DC reverse voltage	V_R	40	V
Mean rectifying current	I_O	0.1	A
Non-repetitive Peak Forward Surge Current@t=8.3ms	I_{FSM}	1	A
Power dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	500	°C/W
Junction temperature	T_j	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

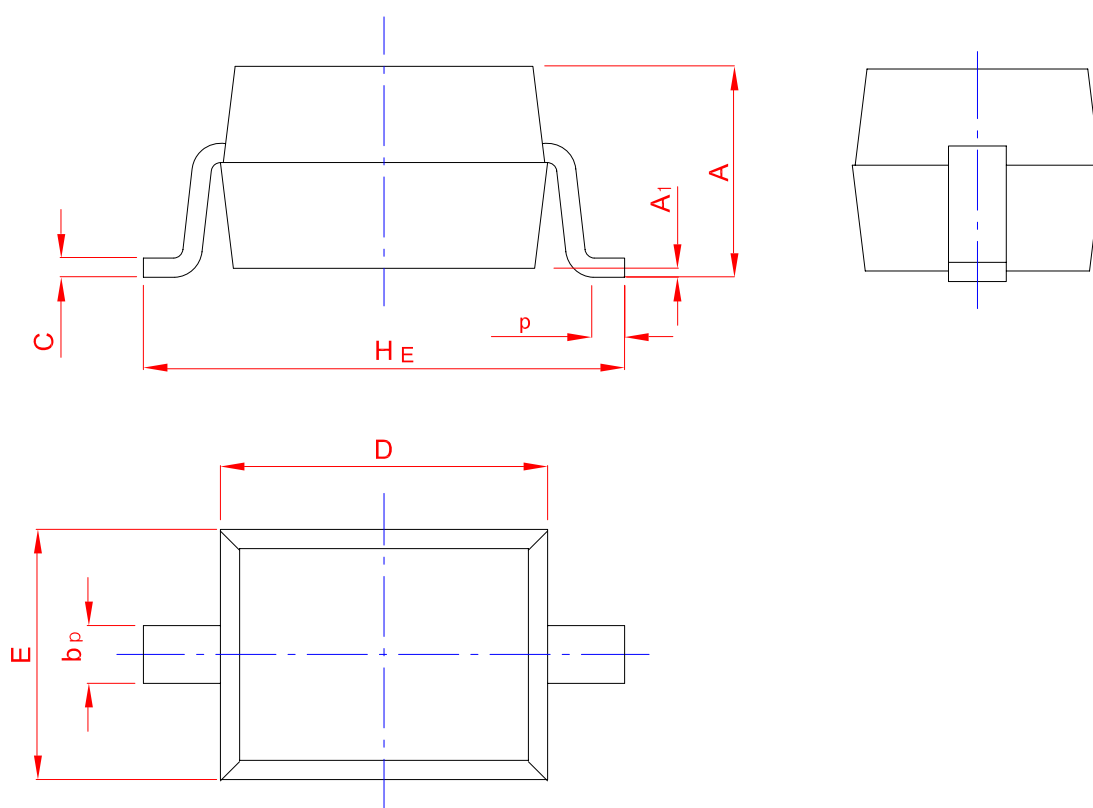
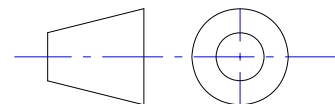




PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-323



UNIT	A	b _p	C	D	E	H _E	A ₁	L _p
mm	1.00 0.80	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