Schottky Barrier Diode

Features

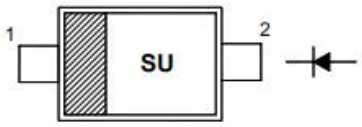
- Low forward voltage
- Low reverse current

Applications

- High Speed Switching

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: "SU"
Simplified outline SOD-323 and symbol

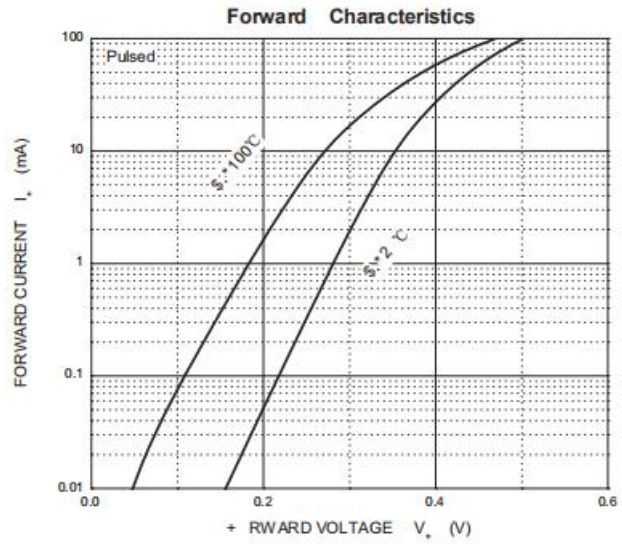
Absolute Maximum Ratings (T_a = 25 °C)

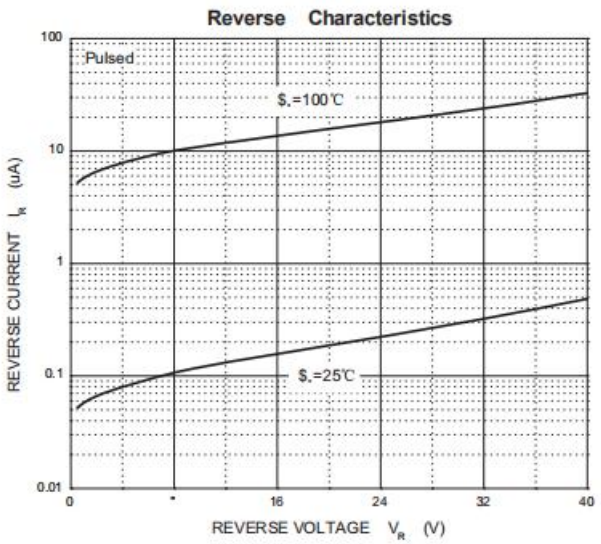
Parameter	Symbol	Limit	Unit
Peak reverse voltage	V_{RM}	45	V
DC reverse voltage	V_R	40	V
Mean rectifying current	I_O	0.1	A
Non-repetitive Peak Forward Surge Current@t=8.3ms	I_{FSM}	1	A
Power dissipation	P_D	200	mW
Thermal Resistance Junction to Ambient	R_{ejA}	500	C/W
Operating Junction Temperature Range	T_j	-40 ~ +125	C
Storage Temperature Range	T_{stg}	-55~ +150	C

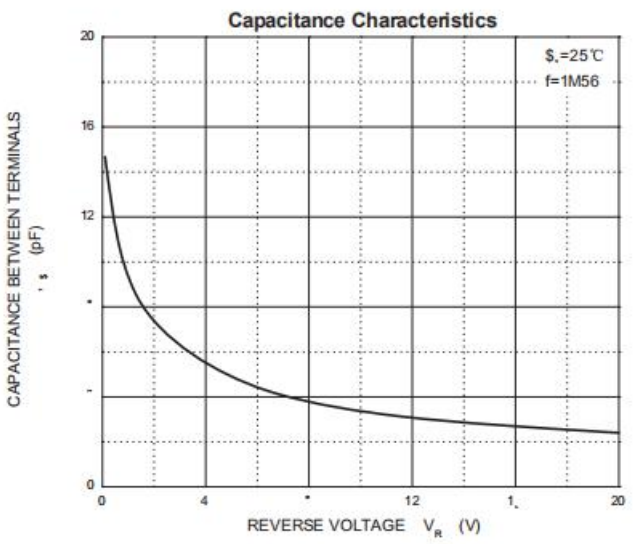
Electrical Characteristics (T_a = 25 °C)

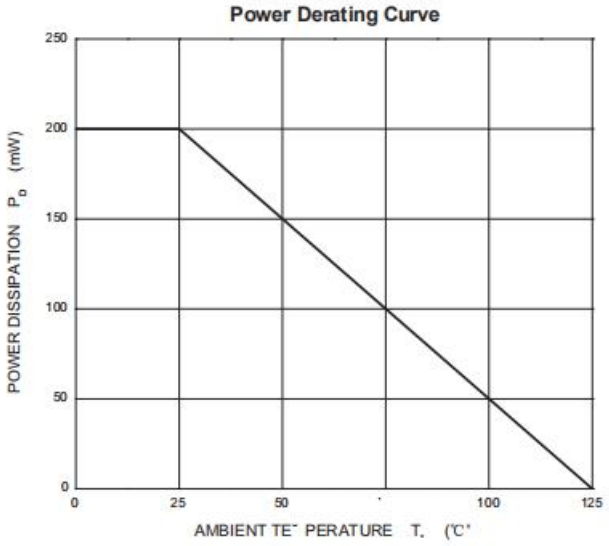
Forward voltage	V_F			0.35	V	I_F=1mA
Forward voltage	V_F			0.45	V	I_F=10mA
Forward voltage	V_F			0.60	V	I_F=100mA
Reverse current	I_R			5	μA	V_R=40V
Capacitance between terminals	C_T			25	pF	V_R=0V, f=1MHz

Typical Characteristics



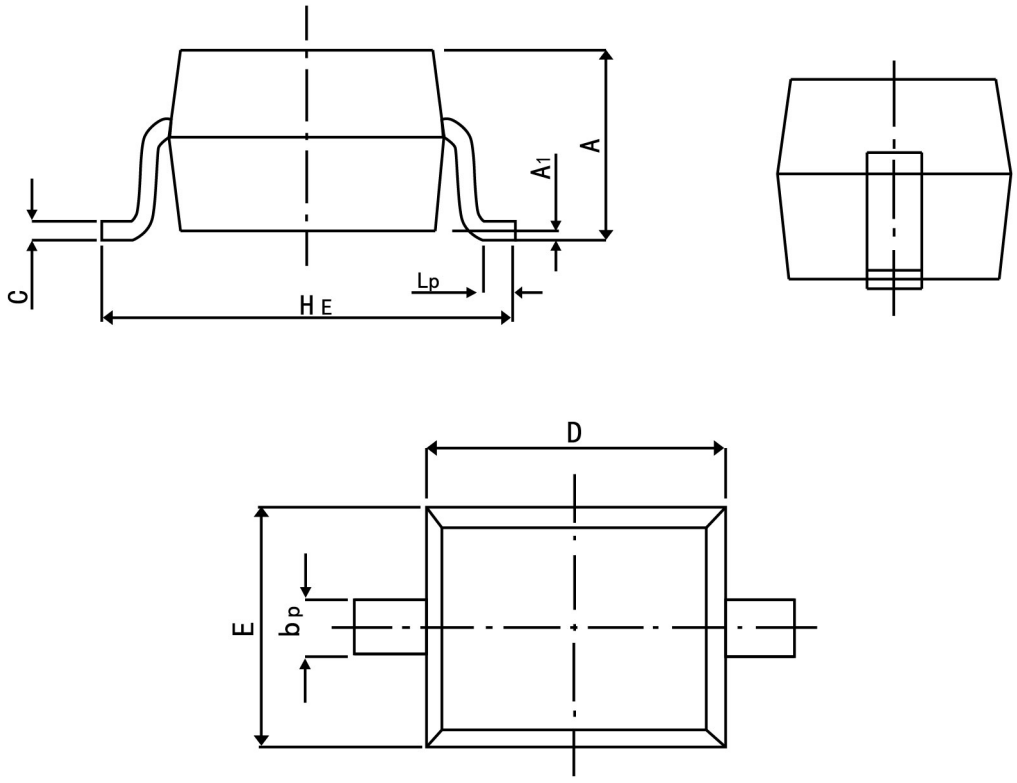






PACKAGE OUTLINE

Plastic surface mounted package; 2 leads **SOD-323**



Symbol	Dimension in Millimeters	
	Min	Max
A	0.90	1.20
bp	0.25	0.40
C	0.10	0.15
D	1.60	1.80
E	1.15	1.35
HE	2.30	2.80
A1	0.01	0.10
Lp	0.20	0.50