

SCHOTTKY BARRIER DIODE

Features

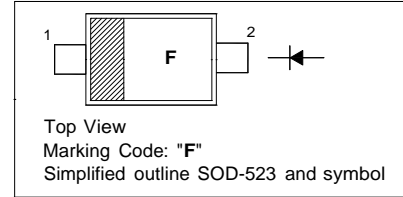
- Ultra small SMD package
- Very low forward voltage

Applications

- Ultra high speed switching
- Voltage clamping
- Low current rectification

PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings ($T_a = 25\text{ }^\circ\text{C}$)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	20	V
Continuous Forward Current	I_F	500	mA
Repetitive Peak Forward Current (at $t_p = 1\text{ ms}$)	I_{FRM}	3.5	A
Non-Repetitive Peak Forward Surge Current ($t = 8\text{ ms}$ square wave)	I_{FSM}	6	A
Junction Temperature	T_j	125	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 65 to + 150	$^\circ\text{C}$

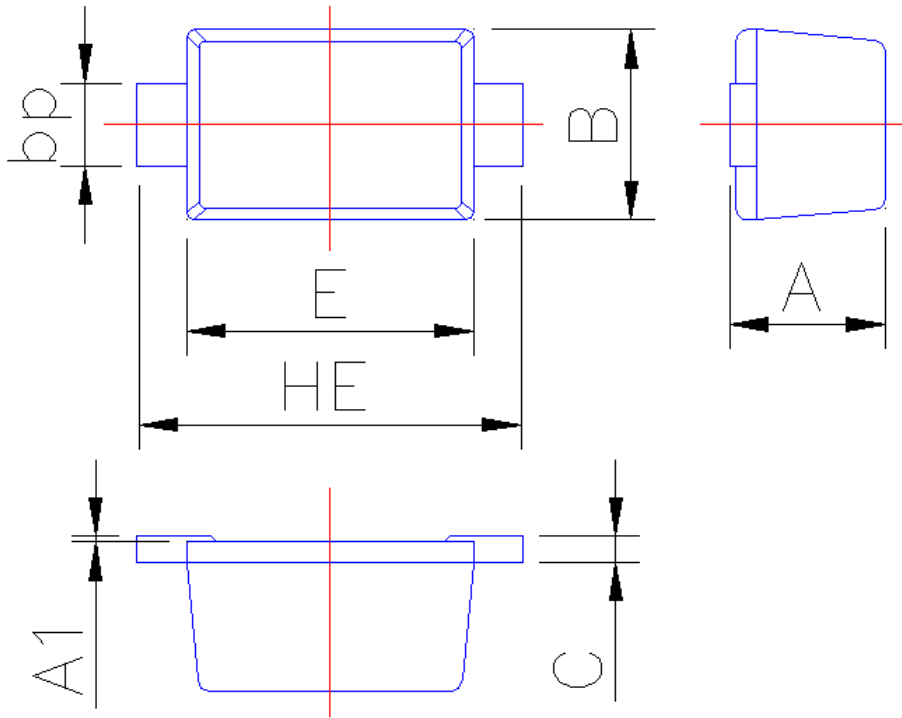
Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 0.1\text{ mA}$ at $I_F = 1\text{ mA}$ at $I_F = 10\text{ mA}$ at $I_F = 100\text{ mA}$ at $I_F = 500\text{ mA}$	V_F	180 240 290 380 650	mV
Reverse Current at $V_R = 10\text{ V}$	I_R	30	μA
Diode Capacitance at $V_R = 1\text{ V}$, $f = 1\text{ MHz}$	C_d	30	pF

PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SOD-523



Symbol	Dimension in Millimeters	
	Min	Max
A	0.60	0.70
A1	0	0.05
B	0.75	0.85
bp	0.25	0.40
C	0.09	0.15
E	1.15	1.25
HE	1.50	1.70