SEMICONDUCTOR
TECHNICAL DATA

RB520S-40

Plastic-Encap sulate Diodes

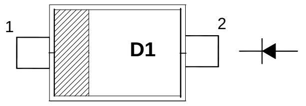
Schottky Barrier Diode

FEATURES

- Small surface mounting type
- Low I_R
- High reliability

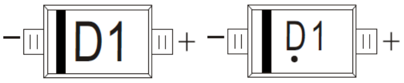
PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



Top View
Marking Code: "**D1**"
Simplified outline SOD-523 and symbol

MARKING: D1



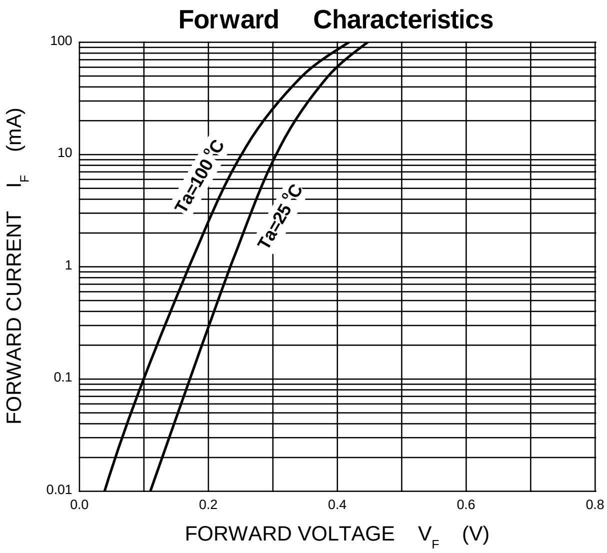
The marking bar indicates the cathode
Solid dot = Green molding compound device,if none,
the normal device.

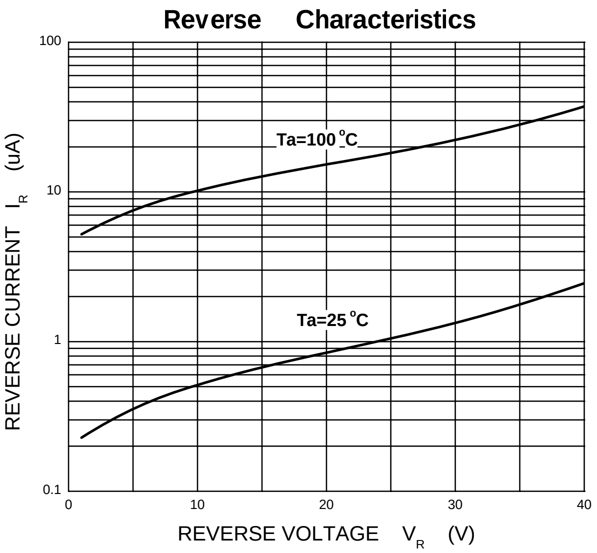
Maximum Ratings and Electrical Characteistics, Single Diode @T_A =25℃

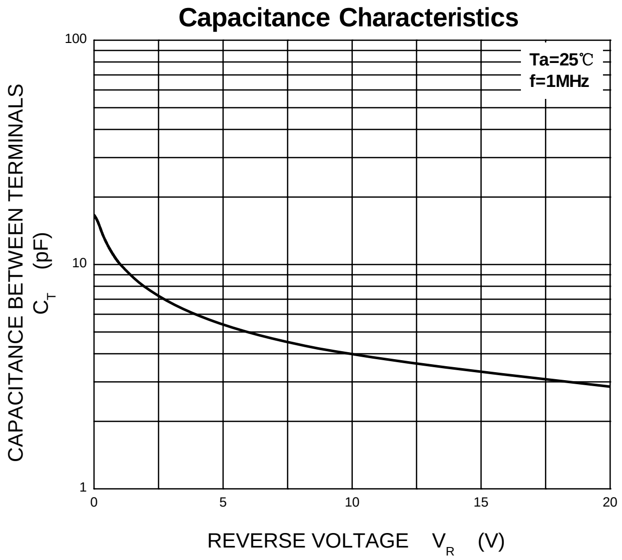
Parameter	Symbol	Limit	Unit
DC reverse voltage	V_R	40	V
Mean rectifying current	I_O	0.2	A
Non- repetitive peak forward surge current @t=8.3ms	I_{FSM}	1	A
Power Dissipation	P_D	150	mW
Thermal resistance from junction to ambient	$R_{\theta JA}$	667	℃/W
Junction temperature	T_J	125	℃
Storage temperature	T_{STG}	-55~+150	

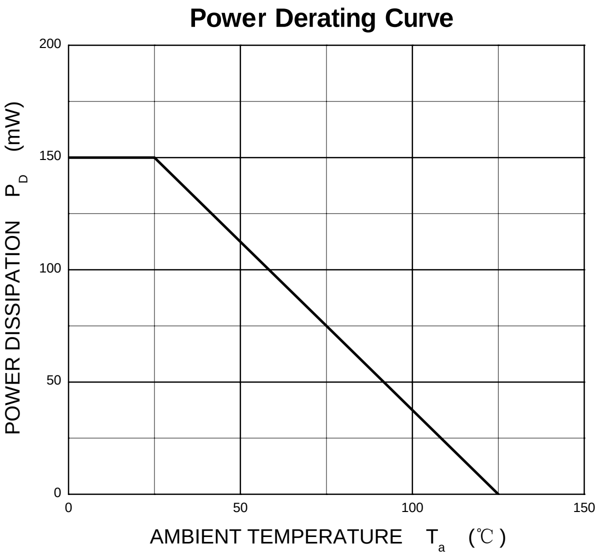
Electrical Ratings @T_A=25℃

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Forward voltage	V_F		0.304 0.446	0.39 0.55	V	I_F=10mA I_F=100mA
Reverse current	I_R		0.605 2.837	1 10	μA	V_R=10V V_R=40V


Forward Characteristics

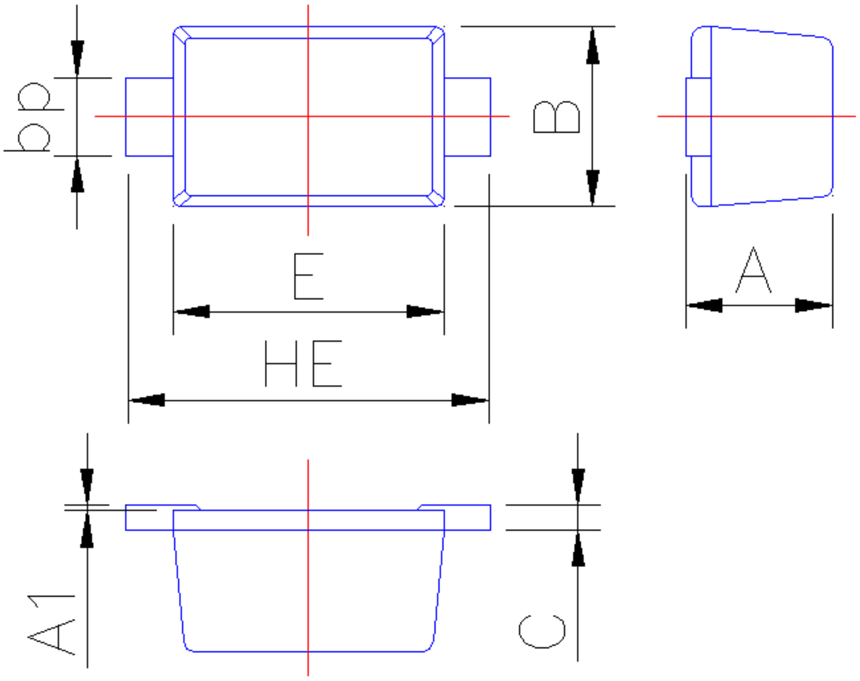

Reverse Characteristics


Capacitance Characteristics


Power Derating Curve

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