

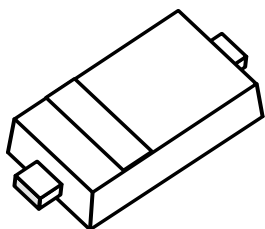


RB520S-40 Schottky Barrier Diode

Feature

- Small surface mounting type
- Low IR
- High reliability

Package:



SOD-523

Circuit diagram



Marking



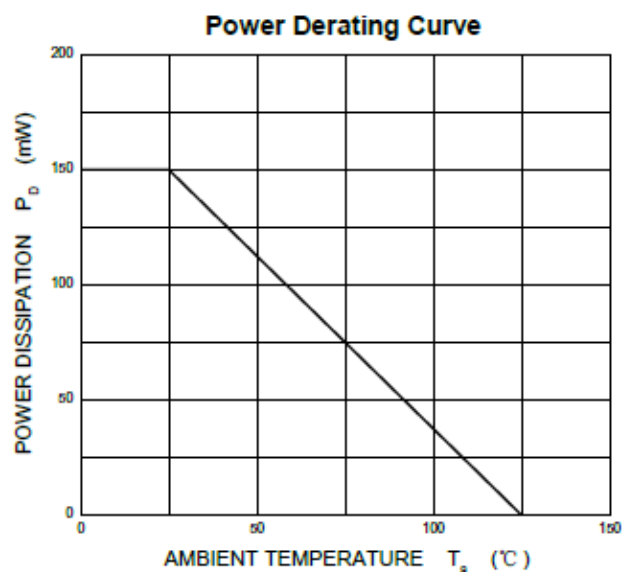
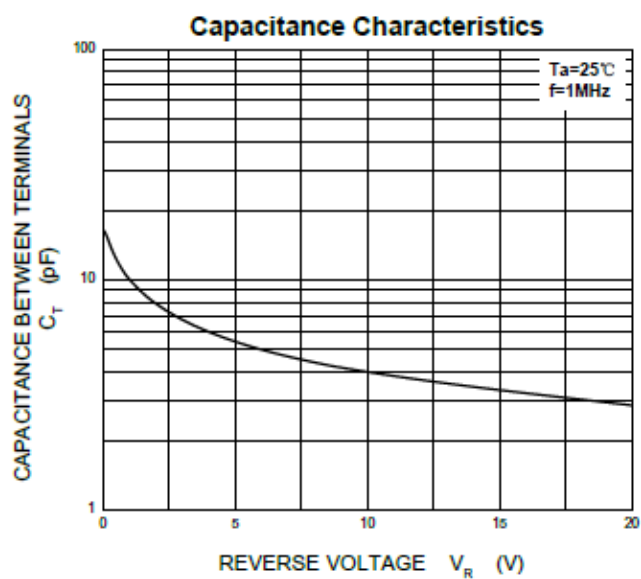
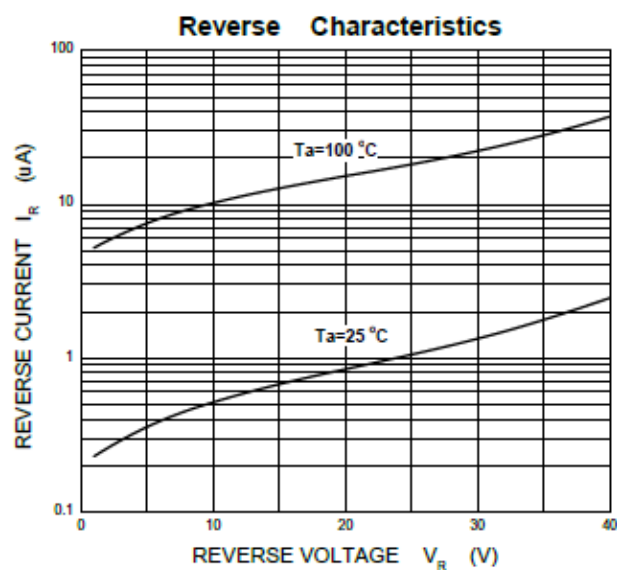
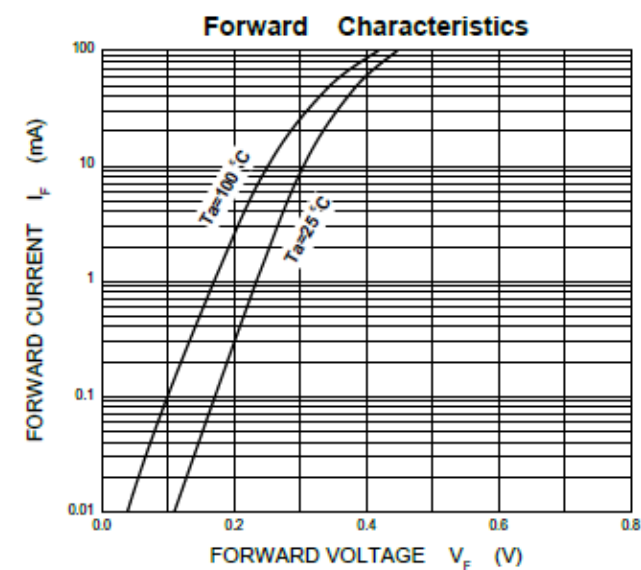
**Absolute maximum ratings (Ta=25°C unless otherwise noted)**

Parameter	Symbol	Value	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	°C/W
Junction Temperature	T_J	125	°C
Storage Temperature	T_{STG}	-55 ~ +150	°C

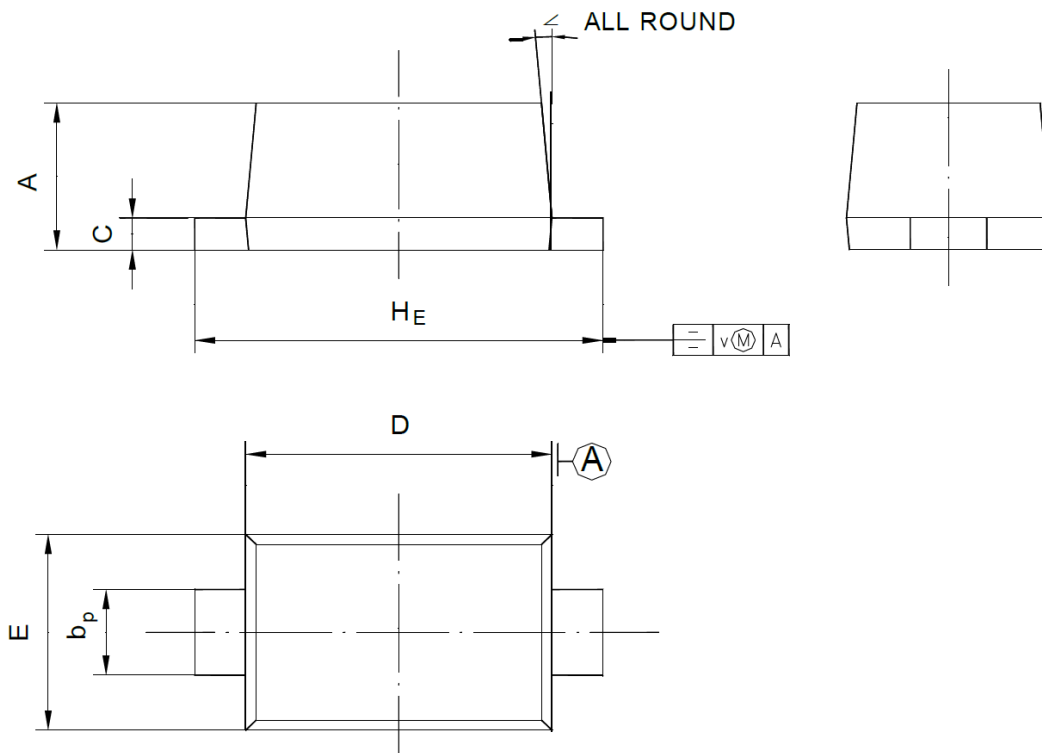
Electrical characteristics (T_A=25 °C, unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Reverse voltage	V_{BR}	$I_R = 100\mu A$	40			V
Forward voltage	V_F	$I_F = 10mA$		0.304	0.39	V
		$I_F = 100mA$		0.446	0.55	
		$I_F = 200mA$			0.6	
Reverse current	I_R	$V_R = 10V$			1	μA
		$V_R = 40V$			10	

Typical Characteristics



SOD-523 Package Information



Symbol	Dimensions In Millimeters	
	Min.	Max.
A	0.7	0.6
b _p	0.4	0.3
C	0.135	0.1
D	1.25	1.15
E	0.85	0.75
H _E	1.7	1.5
V	0.1	
∠	5°	



制 修 订 记 录					
文件版本	制修日期	修订页次	修订人	变更内容	
1.0	2020/1/8		张功杰	规格书建立	
批准		审核		编制	
日期		日期		日期	