



DESCRIPTION

The RB520S-40 is available in SOD-523 package.

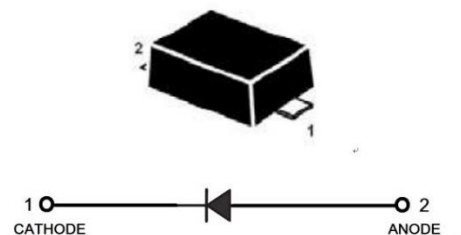
FEATURE

- Small surface mounting type.
- Low IR.
- High reliability

ORDERING INFORMATION

Package Type	Part Number
SOD-523	RB520S-40
Note	SPQ: 3,000pcs/Reel
AiT provides all RoHS Compliant Products	

PIN DESCRIPTION



PIN#	DESCRIPTION
1	Cathode
2	Anode

ABSOLUTE MAXIMUM RATINGS

T_A = 25°C

V _R , DC Reverse Voltage	40V
I _O , Mean Rectifying Current	0.2A
I _{FSM} , Non-Repetitive Peak Forward Surge Current @t=8.3ms	1A
P _D , Power Dissipation	150mW
R _{θJA} , Thermal Resistance From Junction To Ambient	667°C/W
T _J , Junction Temperature	125°C
T _{STG} , Storage Temperature	-55°C ~ + 150°C

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS

T_A = 25°C

Parameter	Symbol	Conditions	Min	Typ.	Max	Unit
Forward Voltage	V _F	I _F = 10mA	-	0.304	0.39	V
		I _F = 100mA	-	0.446	0.55	
Reverse current	I _R	V _R = 10V	-	0.605	1	μA
		V _R = 40V	-	2.837	10	



TYPICAL PERFORMANCE CHARACTERISTICS

Fig 1. Forward Characteristics

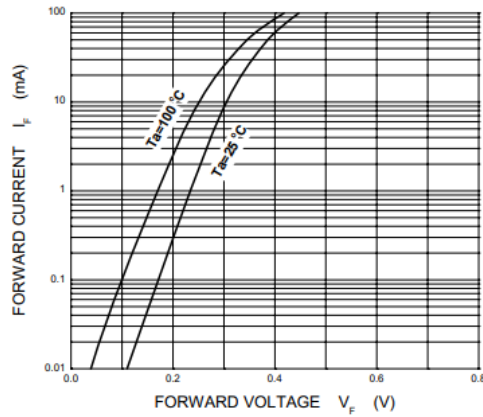


Fig 2. Reverse Characteristics

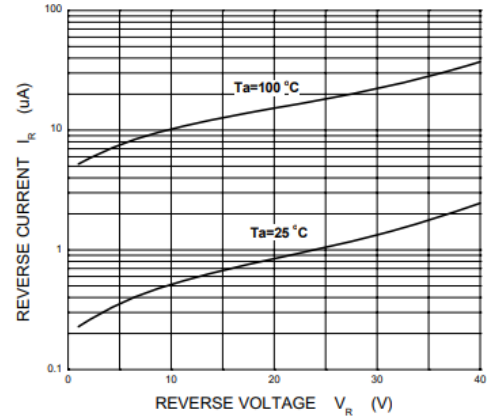


Fig 3. Capacitance Characteristics

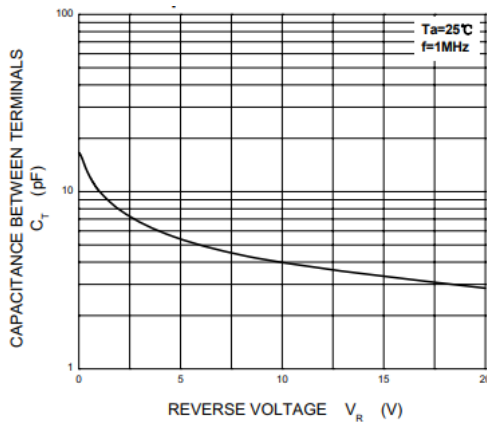
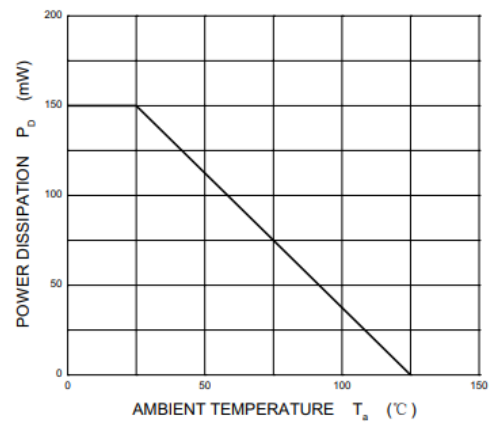


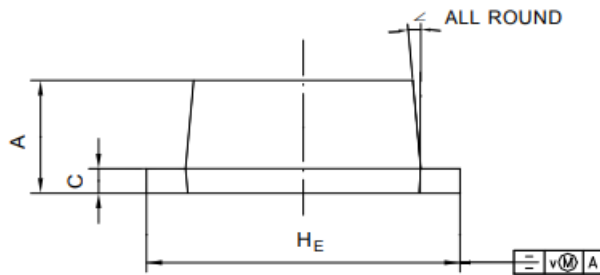
Fig 4. Power Derating Curve



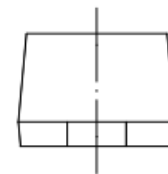


PACKAGE INFORMATION

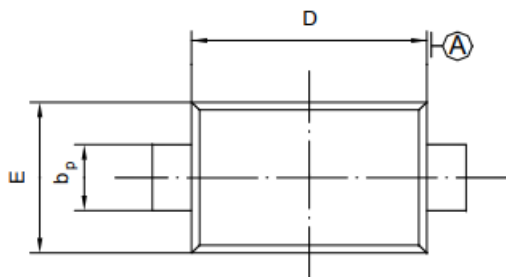
Dimension in SOD-523 Package (Unit: mm)



TOP VIEW



SIDE VIEW



SOLDERING FOOTPRINT

SYMBOL	MILLIMETERS	
	Min.	Max.
A	0.600	0.700
b _p	0.300	0.400
C	0.100	0.135
D	1.150	1.250
E	0.750	0.850
H _E	1.500	1.700
V	0.100	
∠	5°	



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