

RB521S-40

SURFACE MOUNT SCHOTTKY BARRIER

VOLTAGE 40 Volt **CURRENT** 0.2 Ampere

SOD-523

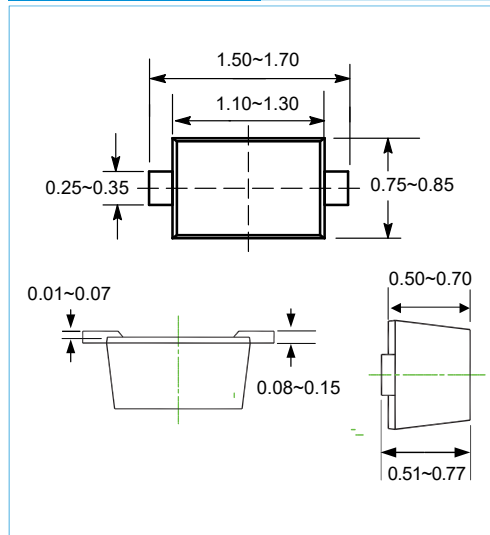
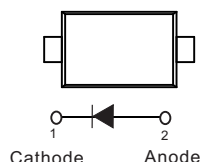
Unit:mm

FEATURES

- Ultra small mold type
- Low reverse current and low forward voltage
- High reliability
- Lead free in compliance with EU RoHS
- Marking code: S

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

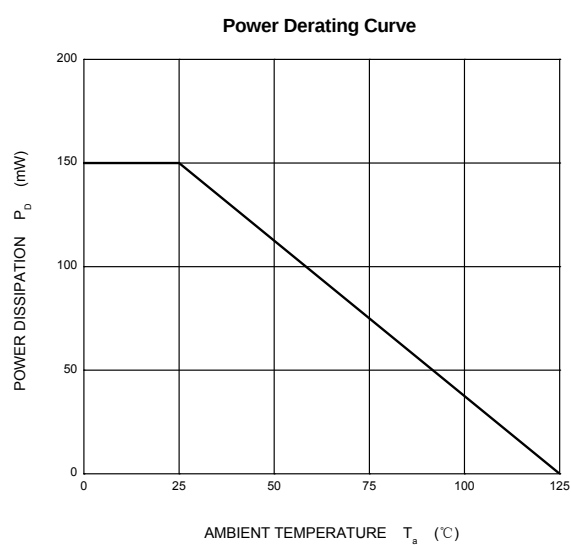
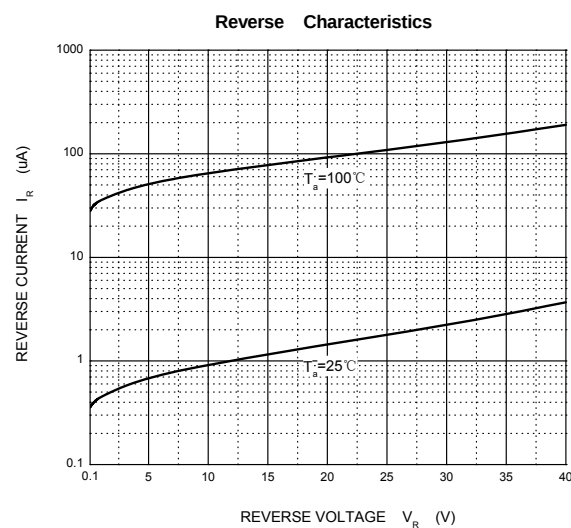
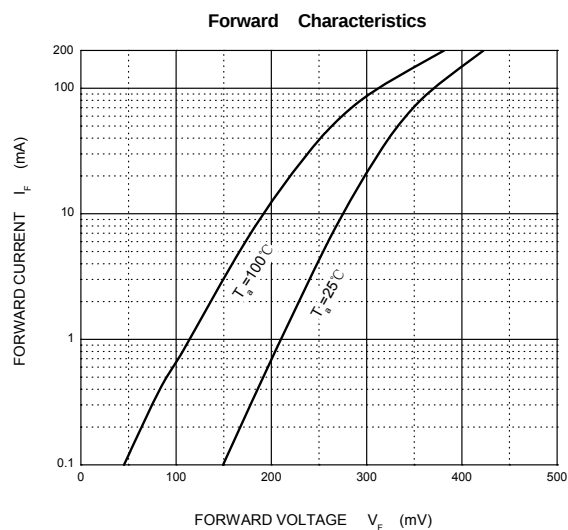
Parameter	Symbol	Value	Units
Non-repetitive peak reverse voltage	V_{RM}	45	V
Peak repetitive reverse voltage	V_R	40	V
Average Rectified Output Current	I_O	0.2	A
Non-repetitive Peak Forward surge current @ $t=8.3\text{ms}$	I_{FSM}	1.0	A
Power dissipation	P_D	150	mW
Thermal resistance junction to ambient	$R_{\theta JA}$	667	$^{\circ}\text{C/W}$
Junction Temperature	T_J	125	$^{\circ}\text{C}$
Storage Temperature	T_{STG}	-55 to +150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS($T_A = 25^{\circ}\text{C}$ unless otherwise noted)

Characteristic	Symbol	Conditions	Min	Typ	Max	Unit
Forward Voltage	V_F	($I_F = 10\text{ mA}$) ($I_F = 100\text{ mA}$) ($I_F = 200\text{ mA}$)	0.16 0.31 0.41		0.30 0.45 0.54	V
Reverse Leakage	I_R	($V_R = 10\text{ V}$) ($V_R = 40\text{ V}$)			20 90	μA

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Typical Characteristics

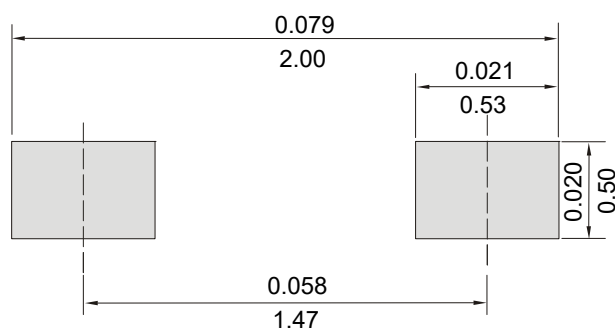


RB521S-40

MOUNTING PAD LAYOUT

SOD-523

Unit:Inch(mm)



ORDER INFORMATION

- Packing information

Part Number	Case	Reel Size	QUANTITY
RB521S-40	SOD-523	7 Inch	8000