

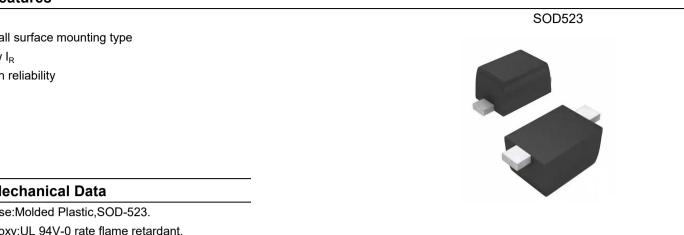
1. Features

- Small surface mounting type
- Low I_R
- High reliability



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Schottky Barrier Diode



2. Mechanical Data

- Case:Molded Plastic,SOD-523.
- Epoxy:UL 94V-0 rate flame retardant.
- Terminals:Plated Leads Solderable per MIL-STD-750, Method-2026.
- Marking:B
- Marking:marked on body.

3. Maximum Ratings

Electrical Characteristics Rating at 25°C ambient temperature unless otherwise specified.

Characteristic	Symbol	Value	Unit
DC reverse voltage	V _R	30	V
Mean rectifying current	Ι _ο	200	mA
Non-Repetitive Peak Forward Current t = 8.3 ms	I _{FSM}	1	Α
Power Dissipation	P _D	150	mW
Thermal Resistance from Junction to Ambient	$R_{ extsf{ heta}JA}$	667	°C/W
Junction Temperature	TJ	-40 to+125	°C
Storage Temperature Range	T _{stg}	-55 to+150	°C

4. Electrical Characteristics (T_a=25 $^{\circ}$ C unless otherwise noted)

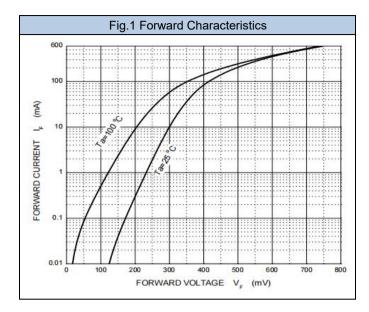
Parameters	Symbol	Cindition	Min	TYP	Max	Unit
Forward Voltage	V _F	I _F = 200mA	-	-	600	mV
Reverse Current	I _R	V _R = 10V	-	-	1.0	μA

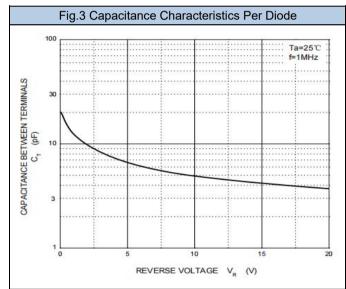


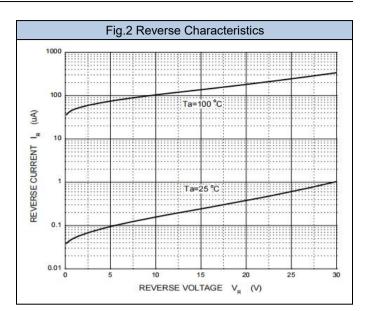
RB520S-30

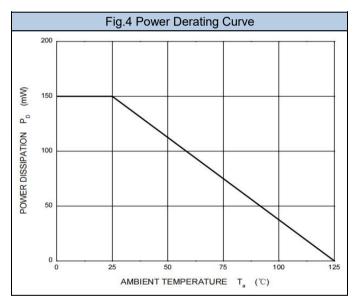
Schottky Barrier Diode

5. Rating And Characteristic Curves







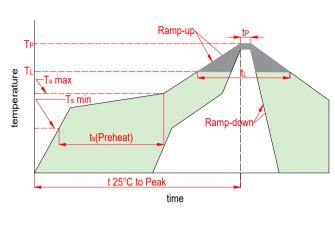




RB520S-30

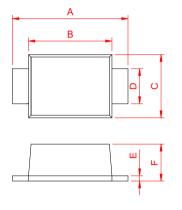
Schottky Barrier Diode

6. Soldering Parameters



	Reflow Condition	Lead-free
	Temp. min(T _s (min))	150 ℃
Pre Heat	Temp. max(T _s (min))	200 ℃
	Time(min to max)(t _s)	60~120s
Aver. ramp	up rate(Liquidus Temp.)(T _L)to peak	3℃/s max
T _s (max) to T _L -Ramp-up Rate		3℃/s max
Reflow	Temp.(T _L)(Liquidus)	217 ℃
	Temp.(t _L)(Liquidus)	60~150s
Peak Temp.(T _P)		260⁺⁰′-5 ℃
Time within actual peak Temp.(t _p)		30s max
Ramp-down Rate		6℃/s max
Time 25 $^\circ\!\mathrm{C}$ to peak Tempe.(T _p)		8 minutes max
Do not exce	eed	260 ℃

7. Dimensions

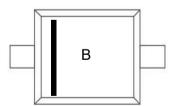


Dimensions	Inches		Millim	Mo	
	Min	Max	Min	Max	
А	0.059	0.067	1.50	1.70	
В	0.043	0.051	1.10	1.30	~
С	0.030	0.033	0.75	0.85	0,8
D	0.010	0.016	0.25	0.40	
E	0.003	0.006	0.08	0.15	
F	0.020	0.030	0.51	0.77	



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8. Part Marking System



9. Package Information

Package	Туре	Tape Width (mm)	Quantity(pcs)
SOD523	RB520S-30	8	3000

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