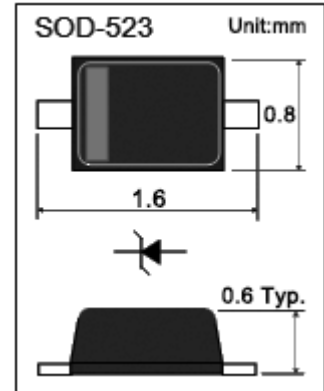


Schottky Barrier Diode/ DATA SHEET

RB521SM5-40

- ◇ Low current rectification
- ◇ Low forward voltage
- ◇ **SOD523** Micro SMD package
- ◇ RoHS compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)
- ◇ Cathode Band / Device marking:

Device Marking Code	
RB521SM5-40	S



Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
VRRM	Repetitive Peak Reverse Voltage	40	V
VRWM	Working Peak Reverse Voltage	40	V
IO	Continuous Forward Current	200	mA
IFSM	Non-Repetitive Peak Forward Current *1	1	A
TJ	Junction Temperature	125	°C
TSTG	Storage Temperature	-55 to +125	°C

Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Conditions	Min	TYP	Max	Units
VF	Forward Voltage	IF = 10mA	0.16		0.30	V
		IF = 100mA	0.31		0.45	V
		IF = 200mA	0.41		0.54	V
BVR	Breakdown Voltage	IR = 500 μA	40			V
IR	Reverse Current	VR = 10V			20	μA
		VR = 40V			90	μA

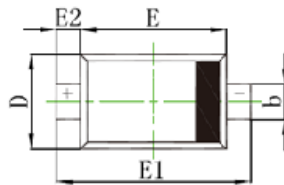
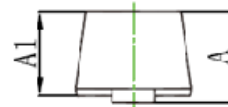
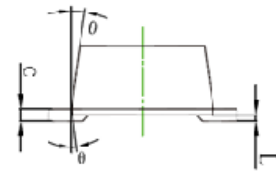
*1 8.3 ms single half sine-wave

Ordering Information

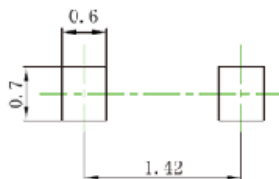
Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Notes
RB521SM5-40	SOD523	Tape & Reel 8000pcs /7" Reel	8 mm	4 mm	Conductive	

Package Dimensions

Package outline : SOD-523



SOD523 Package Outline



Lead Pattern Recommendation

Unit	A	A1	b	c	D	E	E1	E2	L	θ
Max.	0.77	0.70	0.35	0.15	0.85	1.30	1.70	0.20	0.07	7°
Min.	0.51	0.50	0.25	0.08	0.75	1.10	1.50	REF.	0.01	REF.

Note:

1. Halogen free,EMC
2. Pb free solder
3. Lead thickness includes solder plating
4. Lead frame: Cu
5. Other Tolerance: ± 0.05
6. Dimensions are exclusive of Burrs,Mold Flash and Tie Bar extrusions
7. Unit: mm