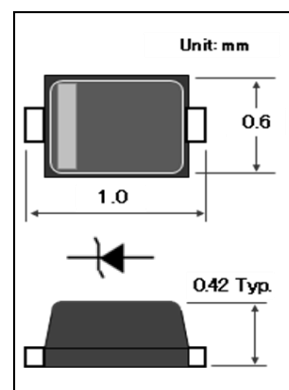


**Schottky Barrier Diode/ DATA SHEET**

- ◇ Low current rectification
- ◇ Low forward voltage
- ◇ **SOD923** Micro SMD package (Fig-1)  
Dimensions: 1.0 mm x 0.6 mm (0.039" x 0.024")
- ◇ RoHS compliant
- ◇ UL-94 V-0 / Green EMC
- ◇ Matte Tin Lead finish (Pb-Free)
- ◇ Cathode Band / Device marking:



※Mark: refer to Device Marking

**Absolute Maximum Ratings (Ta = 25 °C)**

Symbol	Parameter	Value	Units
$V_{RRM}$	Repetitive Peak Reverse Voltage	30	V
$V_R$	Reverse Voltage	30	V
$I_O$	Continuous Forward Current	100	mA
$I_{FSM}$	Non-Repetitive Peak Forward Current *1	500	mA
$T_J$	Junction Temperature	125	°C
$T_{STG}$	Storage Temperature	-55 to +125	°C

\*1: 8.3ms Single Half Sine-Wave

**Electrical Characteristics (Ta = 25 °C)**

Symbol	Parameter	Conditions	Min	TYP	Max	Units
$V_F$	Forward Voltage	$I_F = 10mA$			0.35	V
		$I_F = 20mA$			0.40	V
$BV_R$	Breakdown Voltage	$I_R = 100 \mu A$	30			V
$I_R$	Reverse Current	$V_R = 10V$			10	$\mu A$
		$V_R = 30V$			50	$\mu A$

**Ordering Information**

Device	Package	Shipping	Tape wide	Embos pitch	Tape specification	Notes
CDB0130QRM	SOD923	8,000 pcs / 7" Reel	8 mm	2 mm	Conductive	

**Package Dimensions**

Package outline : SOD923

**SOD923 \* Package Outline**

Unit	A	B	C	D	E	F	G
Max.	0.90	0.20	0.15	0.30	1.10	0.45	0.65
Min.	0.70	0.05	0.05	0.15	0.90	0.39	0.55

**Land Pattern Recommendation**

**Note:**

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