

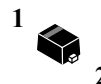
### Surface Mount Schottky Barrier Diodes

**(Pb)** Lead(Pb)-Free

#### Feature:

- \* Small surface mounting type
- \* High Reliability
- \* Low reverse current and low forward voltage

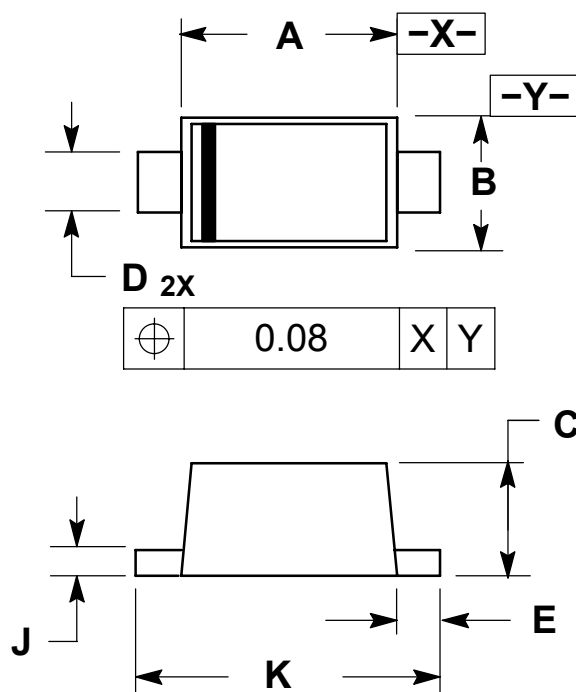
**SMALL SIGNAL  
SCHOTTKY DIODES  
200m AMPERES  
30 VOLTS**



**SOD-723**

### SOD-723 Outline Dimensions

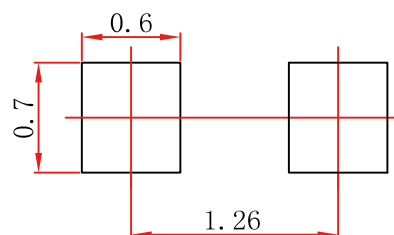
Unit:mm



| SOD-723 |       |      |
|---------|-------|------|
| Dim     | Min   | Max  |
| A       | 0.90  | 1.10 |
| B       | 0.55  | 0.65 |
| C       | 0.525 | 0.65 |
| D       | 0.25  | 0.35 |
| E       | 0.15  | 0.25 |
| J       | 0.08  | 0.15 |
| K       | 1.35  | 1.45 |

PIN 1. CATHODE  
2. ANODE

#### Suggested Pad Layout



**Maximum Ratings** ( $T_A=25^{\circ}\text{C}$  Unless otherwise noted)

| Characteristic                         | Symbol          | Value       | Unit                        |
|----------------------------------------|-----------------|-------------|-----------------------------|
| DC Reverse Voltage                     | $V_R$           | 30          | V                           |
| Average Rectifier Forward Current      | $I_O$           | 200         | mA                          |
| Peak Forward Surge Current             | $I_{FSM}$       | 500         | mA                          |
| Power dissipation                      | $P_D$           | 100         | mW                          |
| Thermal Resistance Junction to Ambient | $R_{\theta JA}$ | 1000        | $^{\circ}\text{C}/\text{W}$ |
| Operation Junction Temperature Range   | $T_J$           | 125         | $^{\circ}\text{C}$          |
| Storage Temperature Range              | $T_{stg}$       | -55 to +150 | $^{\circ}\text{C}$          |

**Electrical Characteristics** ( $T_A=25^{\circ}\text{C}$  Unless otherwise noted)

| Characteristic                       | Symbol | Min | Typ | Max  | Unit          |
|--------------------------------------|--------|-----|-----|------|---------------|
| Forward Voltage<br>$I_F=10\text{mA}$ | $V_F$  |     |     | 0.45 | V             |
| Reverse Leakage<br>$V_R=10\text{V}$  | $I_R$  | -   | -   | 0.5  | $\mu\text{A}$ |

**Device Marking**

| Item    | Marking | Equivalent Circuit diagram                                                            |
|---------|---------|---------------------------------------------------------------------------------------|
| WSD520G | E       |  |

## Electrical Characteristic Curves ( $T_A = 25^\circ\text{C}$ )

