

### Surface Mount Schottky Barrier Diodes

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

#### Feature:

- \* Silicon Epitaxial Planer
- \* Low Forward Voltage and Low Reverse Current
- \* High Reliability
- \* Schottky Barrier Diodes Encapsulated in a SOD-723 Package

#### Description:

These schottky barrier diodes are designed for high speed switching applications circuit protection, and voltage clamping. Extremely low forward voltage reduces conduction loss.

Miniature surface mount package is excellent for hand held and portable applications where space is limited.

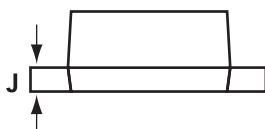
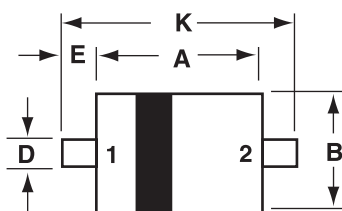
**SMALL SIGNAL  
SCHOTTKY DIODES  
100m AMPERES  
30 VOLTS**



**SOD-723**

### SOD-723 Outline Dimensions

Unit:mm



SOD-723		
Dim	Min	Max
A	0.95	1.05
B	0.55	0.65
C	0.45	0.55
D	0.24	0.30
E	0.15	0.25
J	0.10	0.16
K	1.35	1.45

PIN 1. CATHODE  
2. ANODE

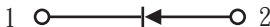
**Maximum Ratings** ( $T_A=25^{\circ}\text{C}$  Unless otherwise noted)

Characteristic	Symbol	Value	Unit
Reverse Voltage	$V_R$	30	Volts
Average Rectifier Forward Current	$I_o$	100	mA
Peak Forward Surge Peak <sup>(1)</sup>	$I_{FSM}$	0.5	A
Junction Temperature	$T_J$	125	$^{\circ}\text{C}$
Storage Temperature	$T_{stg}$	-40 to +125	$^{\circ}\text{C}$

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

Characteristic	Symbol	Min	Max	Unit
Forward Voltage $I_F=10\text{mA}$ WSD520G WSD521G	$V_F$	— —	0.45 0.35	Volts
Reverse Current $V_R=10\text{V}$ WSD520G WSD521G	$I_R$	— —	0.5 10.0	$\mu\text{A}_{dc}$

NOTE: 1. 60HZ for 1 **Device Marking**

Item	Marking	Equivalent Circuit diagram
WSD520G	E	
WSD521G	F	

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

WSD520G

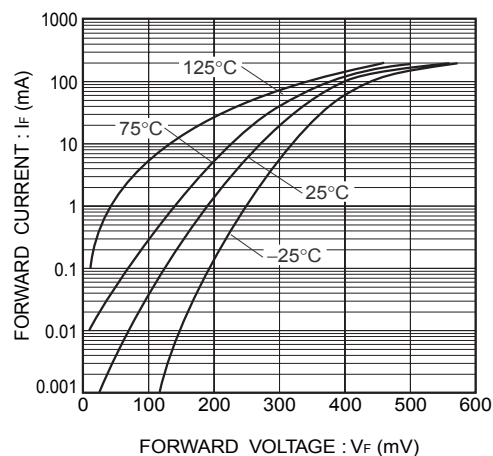


FIG.1 Forward Characteristics

WSD520G

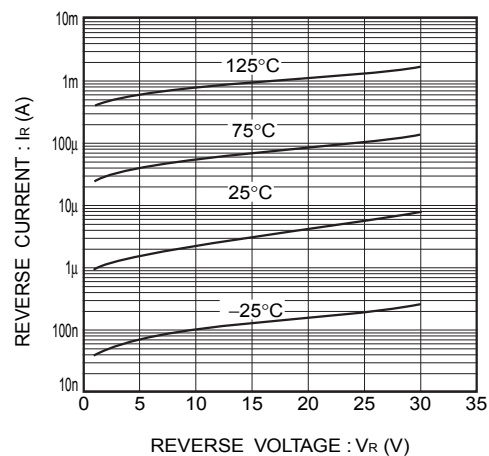


FIG.2 Reverse Characteristics

WSD520G

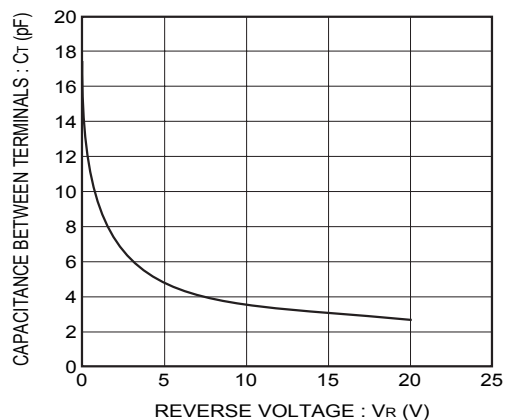


FIG.3 Capacitance Between Terminals Characteristics

WSD521G

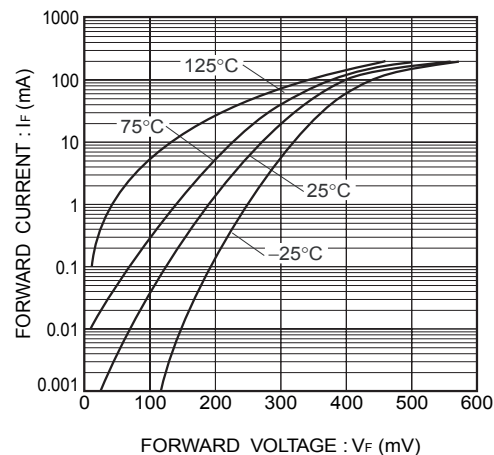


FIG.4 Forward Characteristics

WSD521G

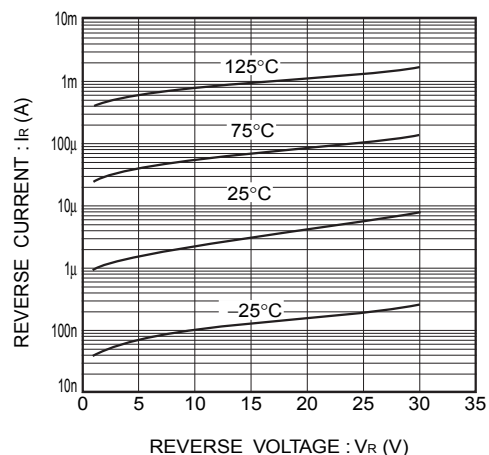


FIG.5 Reverse Characteristics

WSD521G

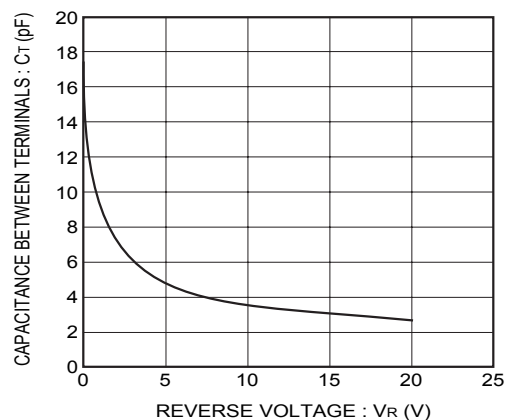


FIG.6 Capacitance Between Terminals Characteristics