

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.

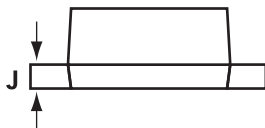
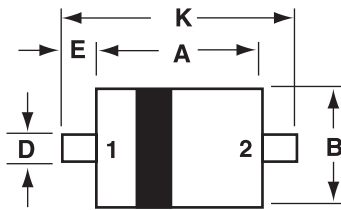
**SMALL SIGNAL
SCHOTTKY DIODES
100m AMPERES
30 VOLTS**



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 ⁽¹⁾	IFSM	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	μA_{dc}

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

Item	Marking	Equivalent Circuit diagram
WSD520G	E	
WSD521G	F	

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

WSD520G

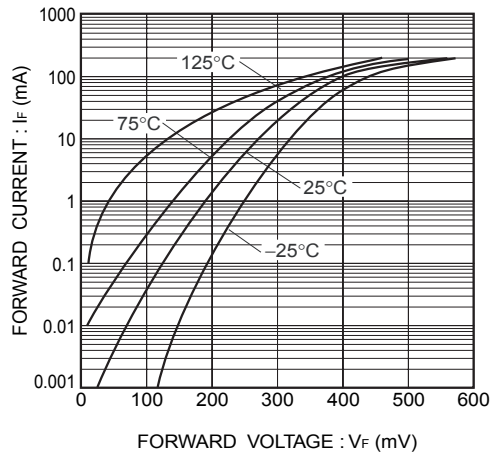


FIG.1 Forward Characteristics

WSD520G

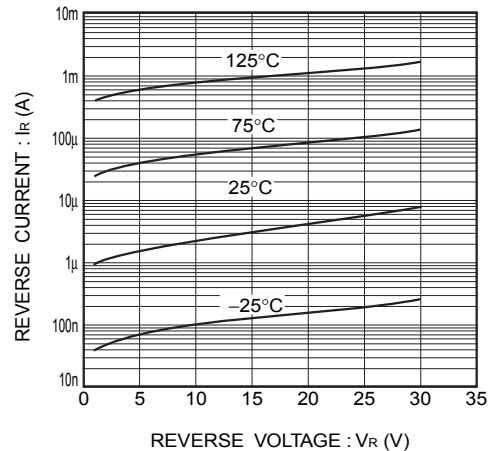


FIG.2 Reverse Characteristics

WSD520G

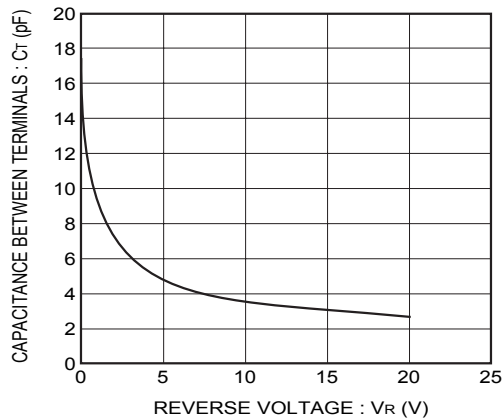


FIG.3 Capacitance Between Terminals Characteristics

WSD521G

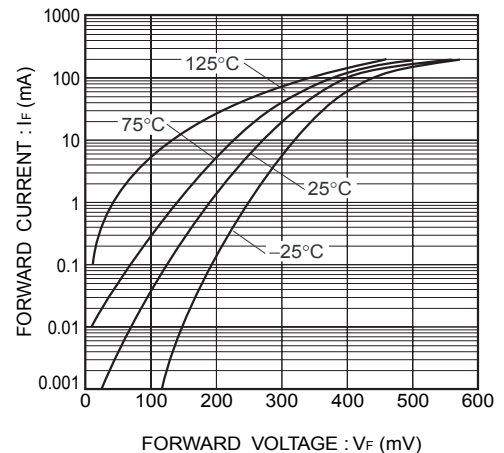


FIG.4 Forward Characteristics

WSD521G

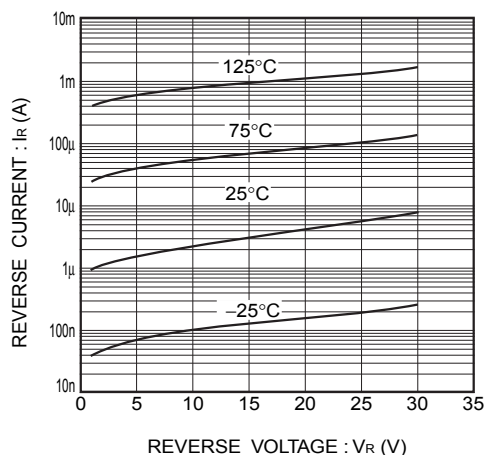


FIG.5 Reverse Characteristics

WSD521G

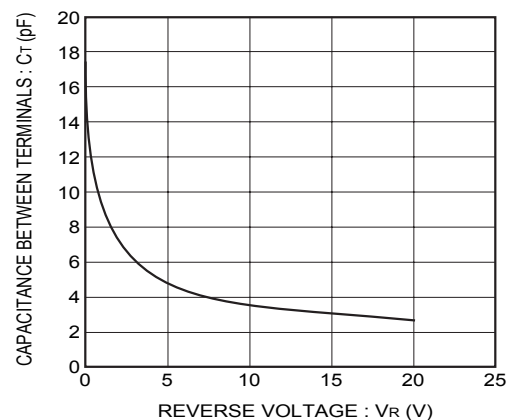


FIG.6 Capacitance Between Terminals Characteristics