

Surface Mount Schottky Barrier Diodes

 Lead(Pb)-Free

Feature:

- * Ultra Small mold type
- * Low IR
- * High Reliability

Description:

Low current rectification

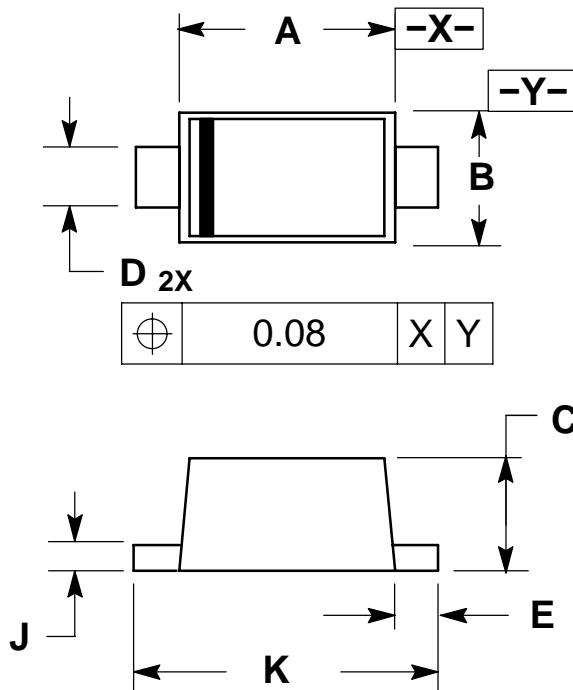
**SMALL SIGNAL
SCHOTTKY DIODES
100m AMPERES
30 VOLTS**



SOD-723

SOD-723 Outline Dimensions

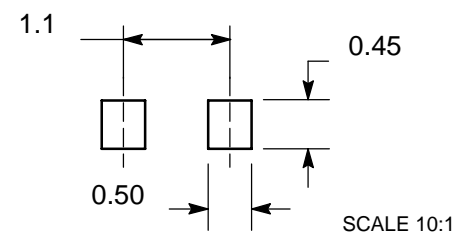
Unit:mm



SOD-723		
Dim	Min	Max
A	0.95	1.05
B	0.55	0.65
C	0.49	0.55
D	0.25	0.32
E	0.15	0.25
J	0.08	0.15
K	1.35	1.45

PIN 1. CATHODE
2. ANODE

SOLDERING FOOTPRINT



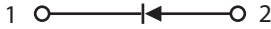
Maximum Ratings ($T_A=25^{\circ}\text{C}$ Unless otherwise noted)

Characteristic	Symbol	Value	Unit
DC Reverse Voltage	V_R	30	V
Average Rectifier Forward Current	I_O	100	mA
Peak Forward Surge Current	I_{FSM}	500	mA
Operation Junction Temperature Range	T_J	125	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-40 to +125	$^{\circ}\text{C}$

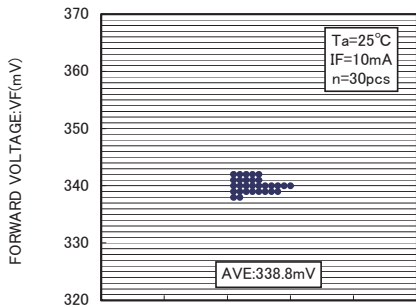
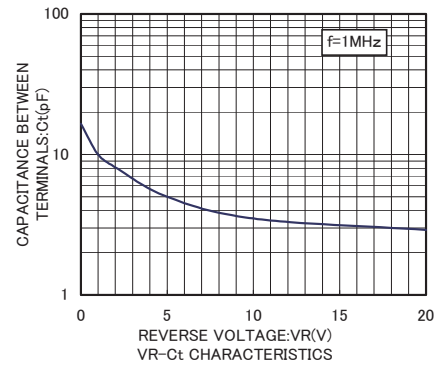
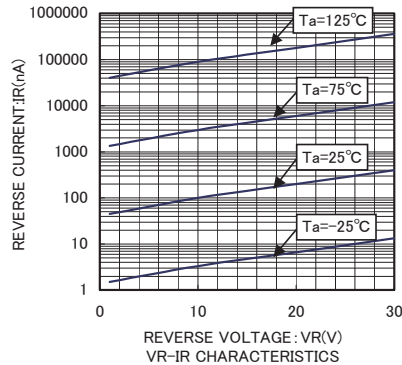
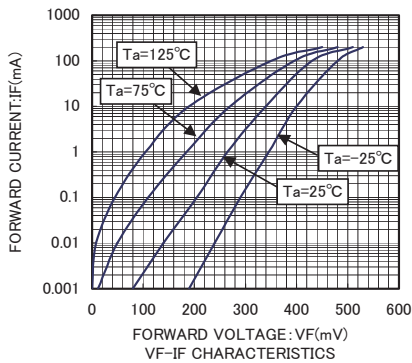
Electrical Characteristics ($T_A=25^{\circ}\text{C}$ Unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Forward Voltage $I_F=10\text{mA}$	V_F	-	-	0.45	V
Reverse Leakage $V_R=10\text{V}$	I_R	-	-	0.5	μA

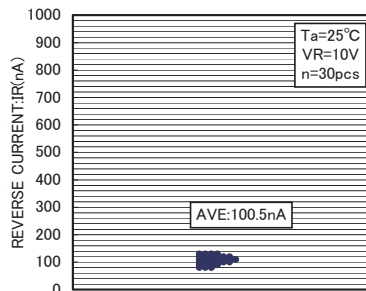
Device Marking

Item	Marking	Equivalent Circuit diagram
WSD520G	E	

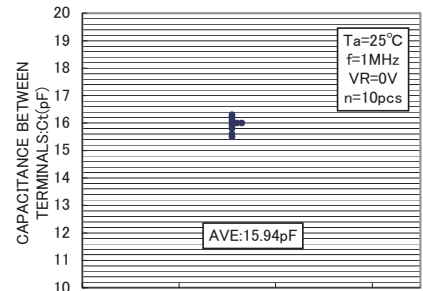
Electrical Characteristic Curves (T_A=25°C)



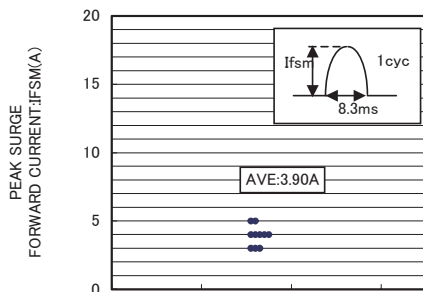
VF DISPERSION MAP



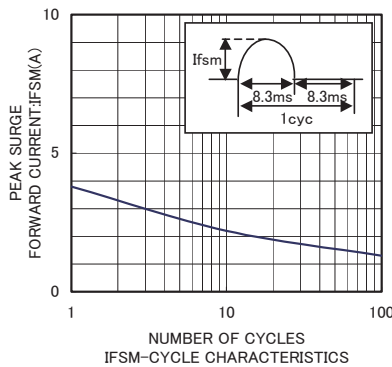
IR DISPERSION MAP



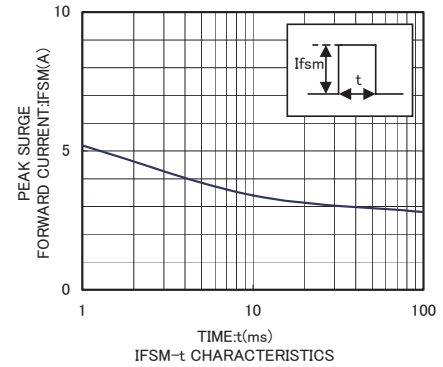
Ct DISPERSION MAP



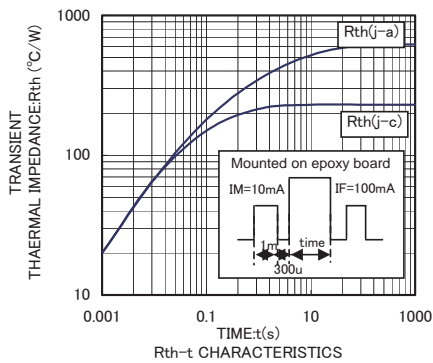
IFSM DISRESION MAP



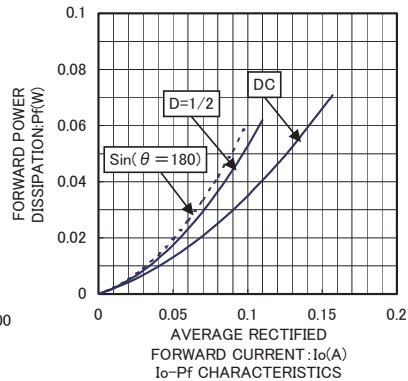
IFSM-CYCLE CHARACTERISTICS



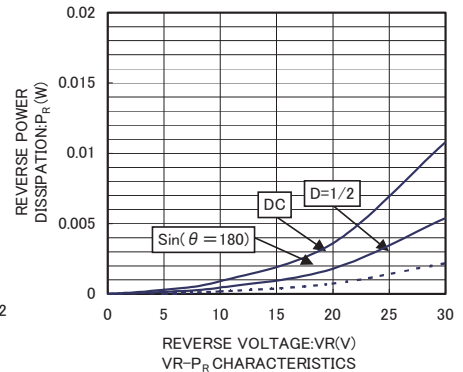
IFSM-t CHARACTERISTICS



Rth-t CHARACTERISTICS



Io-PF CHARACTERISTICS



VR-Pr CHARACTERISTICS

