

Surface Mount Schottky Barrier Diodes

(Pb) Lead(Pb)-Free

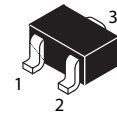
Features:

- * Low Forward Voltage
- * Very Small Conduction Losses
- * Schottky Barrier Diodes Encapsulated in a SOT-323 Package

Applications:

- * Low current rectification

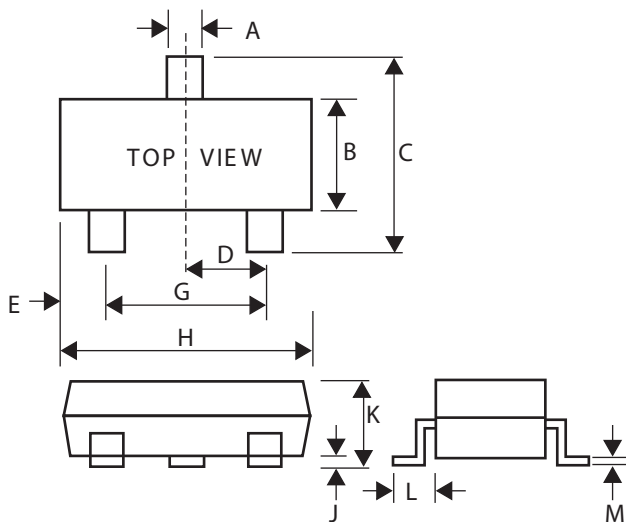
**SMALL SIGNAL
SCHOTTKY DIODES
700m AMPERES
20 VOLTS**



SOT-323(SC-70)

SOT-323 Outline Demensions


Unit:mm



SOT-323		
Dim	Min	Max
A	0.30	0.40
B	1.15	1.35
C	2.00	2.40
D	-	0.65
E	0.30	0.40
G	1.20	1.40
H	1.80	2.20
J	0.00	0.10
K	0.80	1.00
L	0.42	0.53
M	0.10	0.25


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

Characteristic	Symbol	Value	Unit
Reverse Voltage	V_R	20	V
Average Rectifier Forward Current ¹	I_O	700	mA
Peak Forward Surge Current ¹	I_{FSM}	3.0	A
Power Dissipation @ $T_A=25^{\circ}\text{C}$	P_D	150	mW
Operating Junction Temperature Range	T_J	+150	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55 to +150	$^{\circ}\text{C}$

Note:1. 60Hz for 1 **Electrical Characteristics** ($T_A=25^{\circ}\text{C}$ Unless otherwise noted)

Characteristic	Symbol	Min	Typ	Max	Unit
Reverse Breakdown Voltage $I_R=1.0\text{mA}$	$V_{(BR)}$	20	-	-	V
Forward Voltage $I_F=700\text{mA}$	V_F	-	-	0.49	V
Reverse Leakage $V_R=20\text{V}$	I_R	-	-	200	μA

Device Marking

Item	Marking	Equivalent Circuit diagram
WSD461F	3B	

Characteristic Curves

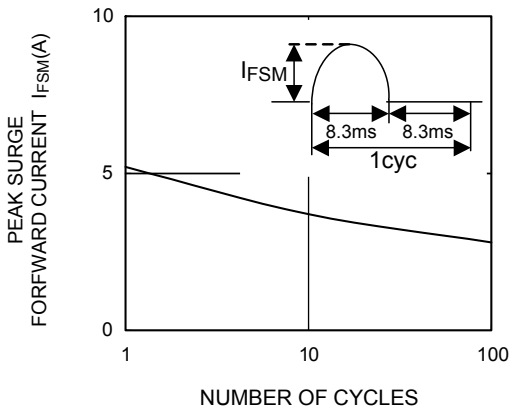


Fig.1 IFSM, CYCLE CHARACTERISTICS

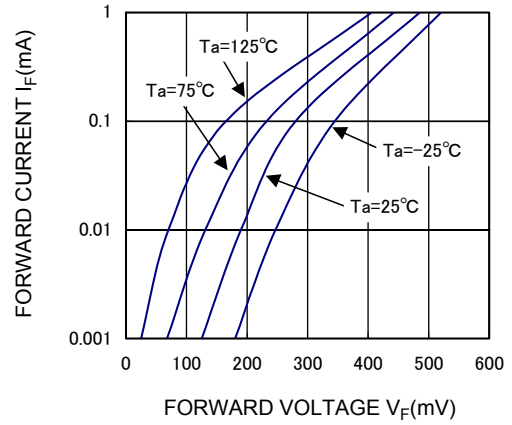


Fig.2 V_F-I_F CHARACTERISTICS

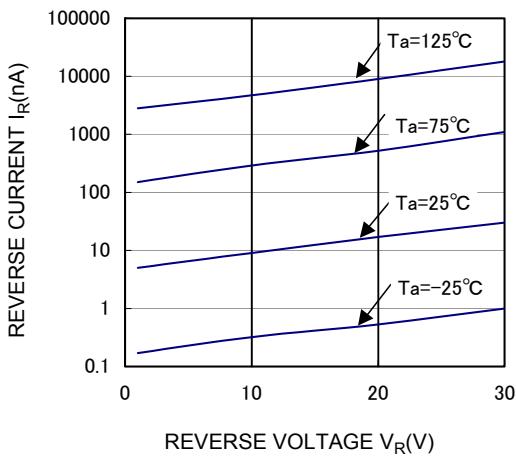


Fig.3 V_R-I_R CHARACTERISTICS

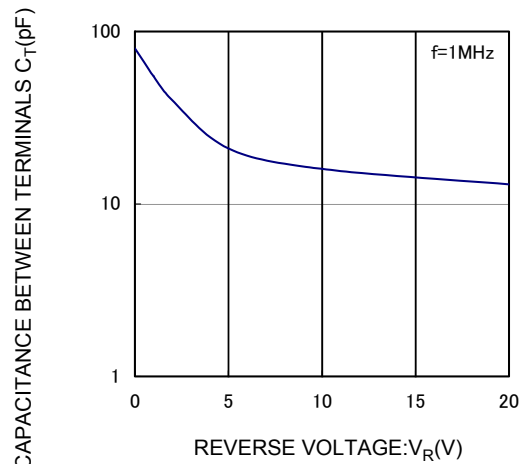


Fig.4 V_R-C_T CHARACTERISTICS