

Surface Mount Switching Diodes

 Lead(Pb)-Free

Features:

- * Four types of packaging are available
- * Suitable for high packing density layout
- * High reliability.

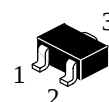
Mechanical Data:

- * Terminals: Solderable per MIL-STD-202, Method 208
- * Polarity: See Diagrams Page.2
- * Marking: See Diagrams Page.2
- * Weight: 0.002 grams (approx)

SWITCHING DIODES

100 mAMPERES

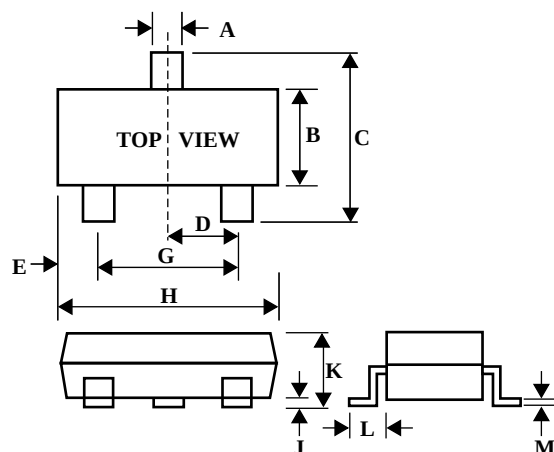
20 VOLTS



SOT-523(SC-75)

SOT-523 Outline Dimensions

Unit:mm



SOT-523

Dim	Min	Max
A	0.30	0.50
B	0.70	0.90
C	1.45	1.75
D	-	0.50
E	0.15	0.40
G	0.80	1.00
H	1.40	1.80
J	0.00	0.10
K	0.70	1.00
L	0.37	0.48
M	0.10	0.25

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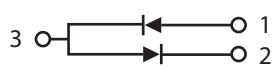
Maximum Ratings ($T_a=25^{\circ}\text{C}$ Unless otherwise noted)

Characteristic	Symbol	Value	Unit
Reverse Voltage	V_R	20	V
Forward Current	I_F	100	mA
Power Dissipation	P_D	150	mW
Operating Junction Temperature Range	T_J	+150	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	-55 to +150	$^{\circ}\text{C}$

Electrical Characteristics ($T_J=125^{\circ}\text{C}$ Unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
Reverse Breakdown Voltage $I_R=100\mu\text{A}$	$V_{(BR)}$	20	-	V
Forward Voltage $I_F=10\text{mA}$	V_F	-	1.0	V
Reverse Leakage $V_R=15\text{V}$	I_R	-	0.1	μA
Total Capacitance $V_R=6\text{V}$, $f=1.0\text{MHz}$	C_D	-	4.0	pF

Device Marking

Item	Marking	Equivalent Circuit diagram
WA221 www.DataSheet4U.com	K	

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

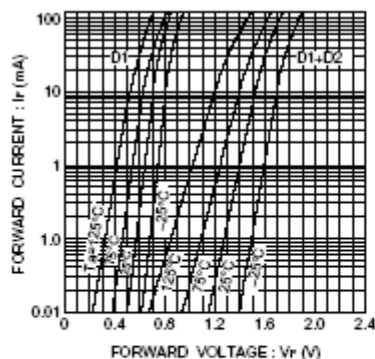


Fig.1 Forward characteristics

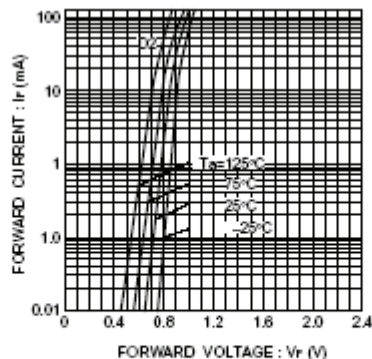


Fig.2 Forward characteristics

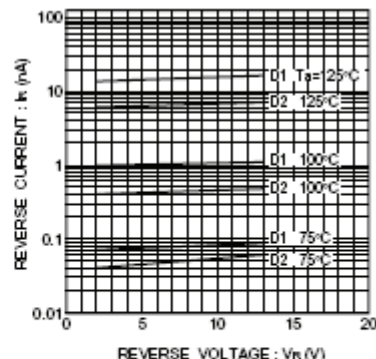


Fig.3 Reverse characteristics

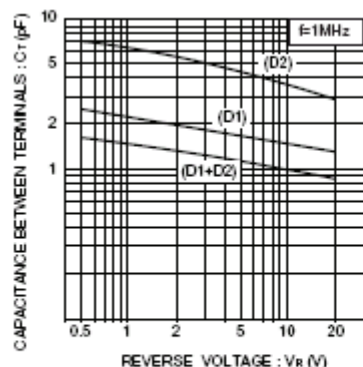


Fig.4 Capacitance between terminals characteristics