

Surface Mount Switching Diode

(Pb) Lead(Pb)-Free

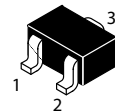
Features:

- *Fast Switching Speed
- *Low Rever Leakage Current
- *Surface Mount Package Ideally Suited for Automatic Insertion

Mechanical Data:

- *Case: SOT-323, Molded Plastic
- *Terminals: Solderable per MIL-STD-202 Method 208
- *Polarity: See Diagram
- *Weight: 0.006grams(approx)

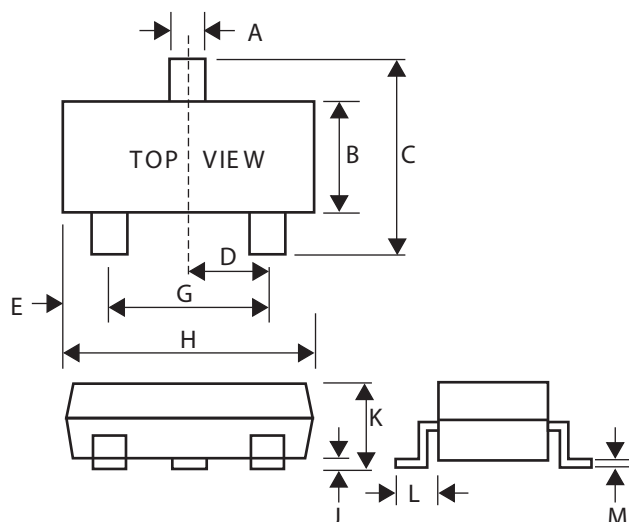
SWITCHING DIODE
100mAMPERS
20VOLTS



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

Rating	Symbol	Value	Unit
Non-Repetitive Reverse Voltage Peak	VRM	20	Vdc
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	20	Vdc
Forward Current	I _F	100	mAdc
Peak Forward Surge Current	I _{FM}	200	mAdc
Non-Repetitive Peak Forward Surge Current @ t=1.0us	I _{FSM}	300	mAdc

Thermal Characteristics

Characteristics	Symbol	Max	Unit
Total Device Dissipation *1	PD	200	mW
Thermal Resistance, Junction to Ambient Air *1	R _{θJA}	625	°C/W
Junction and Storage Temperature	T _J , T _{stg}	-55 to +150	°C

Electrical Characteristics (T_A=25°C Unless Otherwise note)

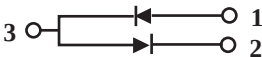
Characteristics	Symbol	Min	Max	Unit
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Off Characteristics

Forward Voltage I _F =10mA	V _F	—	1.0	Vdc
Reverse Voltage Leakage Current V _R =15Vdc	I _R	—	0.1	μAdc

1. Valid provided that terminals are kept at ambient temperature.

Device Marking

Item	Marking	Equivalent Circuit Diagram
WA204U	A7	

Electrical Characteristic Curves

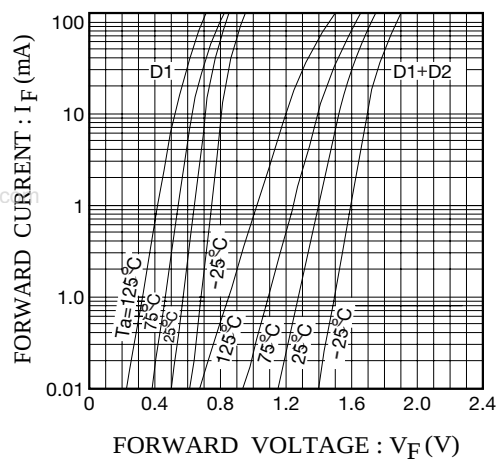


Fig.1 Forward Characteristics

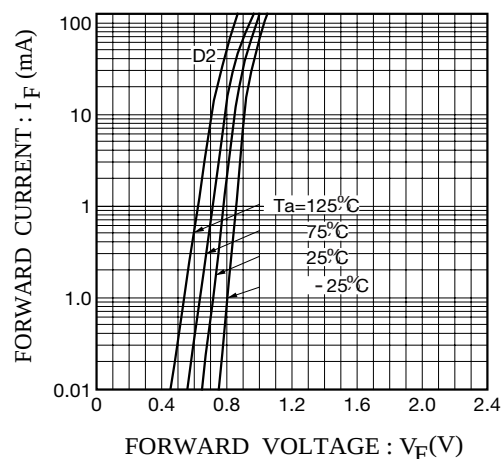


Fig.2 Forward Characteristics

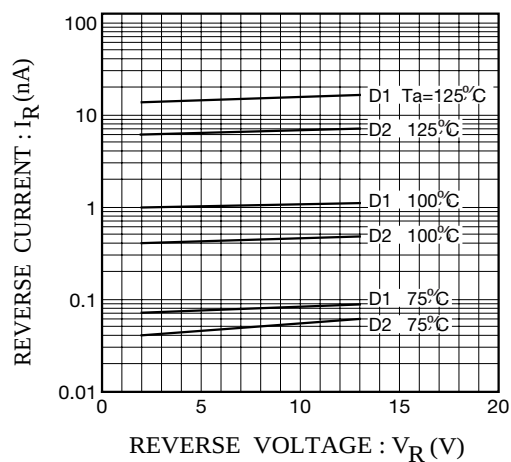


Fig.3 Reverse Characteristics