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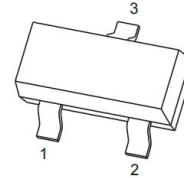
Switching Diode

FEATURE

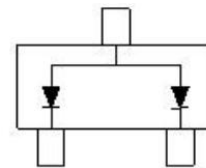
- Fast Switching Speed
- For General Purpose Switching Applications
- High Conductance
- Low Current Leakage
- Small Outline Surface Mount Package
- RoHS compliant / Green EMC

MARKING: A3

SOT-23



Schematic diagram



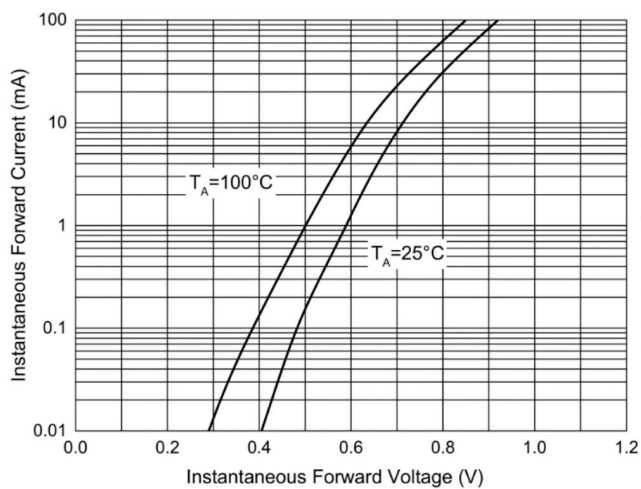
ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Reverse Voltage	V_R	80	V
Forward Continuous Voltage	I_F	100	mA
Power Dissipation	P_{tot}	150	mW
Peak Forward Surge Current @ $t=10\text{ms}$	I_{FSM}	2	A
Storage Temperature	T_{stg}	-55 to 150	$^{\circ}\text{C}$
Junction Temperature	T_J	-55 to 150	$^{\circ}\text{C}$
Thermal Resistance	R	833	$^{\circ}\text{C}/\text{W}$

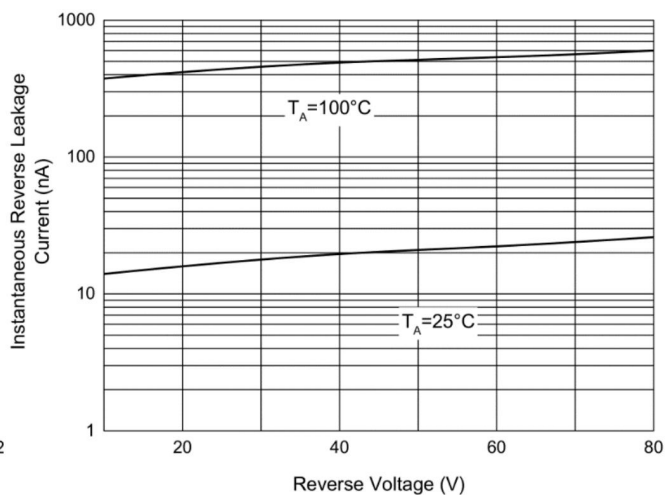
ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Type	Max	Unit
Forward Voltage	V_F	$I_F=100\text{mA}$			1.2	V
Reverse Breakdown Voltage	I_R	$I_R=100\mu\text{A}$	80			V
Reverse Voltage Leakage Current	V_R	$V_R=80\text{V}$			0.5	μA
Typical Junction Capacitance	T_J	$V_R=0\text{V}, f=1.0\text{MHz}$			4	pF
Reverse Recovery Time	T_{rr}	$I_F=10\text{mA}, I_{RR}=1.0\text{mA}, R_L=100\Omega$			4	nS

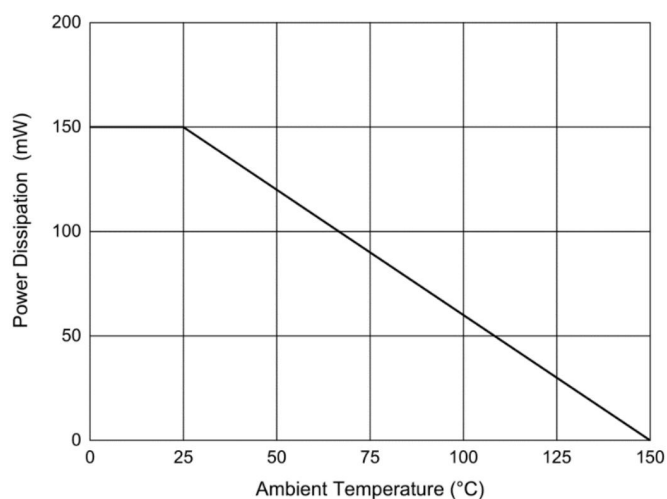
Typical Electrical



Typical Instantaneous Forward Characteristics

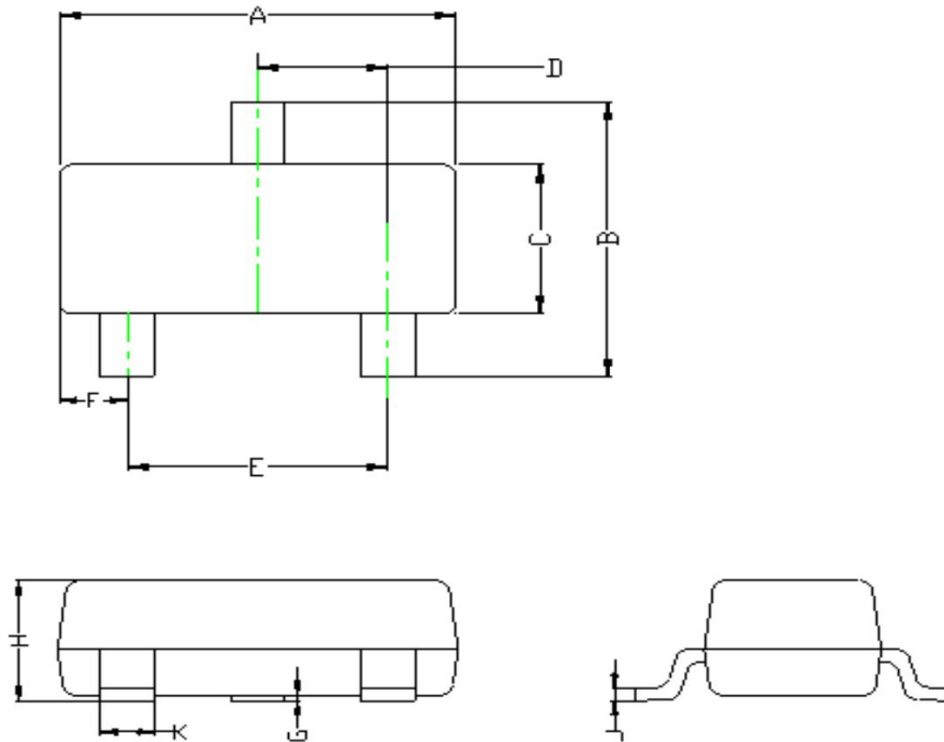


Typical Reverse Leakage Characteristics



Power Derating Curve

SOT-23 Package Information



Symbol	Dimensions In Millimeters		
	Min	Typ	Max
A	2.800	-	3.040
B	2.100	-	2.640
C	1.200	-	1-400
D	0.890	-	1.030
E	1.780	-	2.050
F	0.450	-	0.600
G	0.013	-	0.100
H	0.900	-	1.110
J	0.090	-	0.180
K	0.370	-	0.510

1. Unit mm