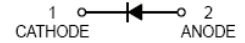
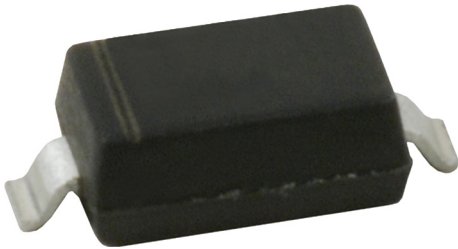


Surface Mount Fast Switching Diode

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SOD-323

Features:

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance

Applications:

- Surface Mount Fast Switching Diode

Maximum Ratings:

Ratings at 25°C unless otherwise specified.

Characteristic	Symbol	Value	Unit
Non-Repetitive peak reverse voltage	V_{RM}	100	V
Peak repetitive reverse voltage Working peak reverse voltage DC reverse voltage	V_{RRM} V_{RWM} V_R	75	V
RMS reverse voltage	$V_{R(RMS)}$	53	V
Forward continuous current	I_{FM}	500	mA
Average rectified output current	I_o	250	mA
Non-Repetitive peak forward surge current at $t=1\mu s$ at $t=1s$	I_{FSM}	4 2	A
Power dissipation	P_d	200	mW
Thermal resistance junction to ambient Air	$R_{\theta JA}$	625	°C/W
Operating and storage temperature range	T_j, T_{STG}	-65 to +150	°C

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Electrical Characteristics:

Ratings at 25°C unless otherwise specified

Characteristic	Symbol	Min.	Max.	Unit	Test Condition
Reverse breakdown voltage	$V_{(BR)R}$	75	-	V	$I_R=1\mu A$
Forward voltage	V_F	0.62	0.715 0.855 1 1.25	V	$I_F=1mA$ $I_F=10mA$ $I_F=50mA$ $I_F=150mA$
Reverse current	I_R	-	2.5 25	μA nA	$V_R=75V$ $V_R=20V$
Capacitance between terminals	C_T	-	4	pF	$V_R=0$, $f=1MHz$
Reverse recovery time	t_{rr}	-	4	ns	$I_F=I_R=10mA$, $I_{rr}=0.1 \times I_R$, $R_L=100\Omega$

Typical Characteristics:

$T_A = 25^\circ C$ unless otherwise specified

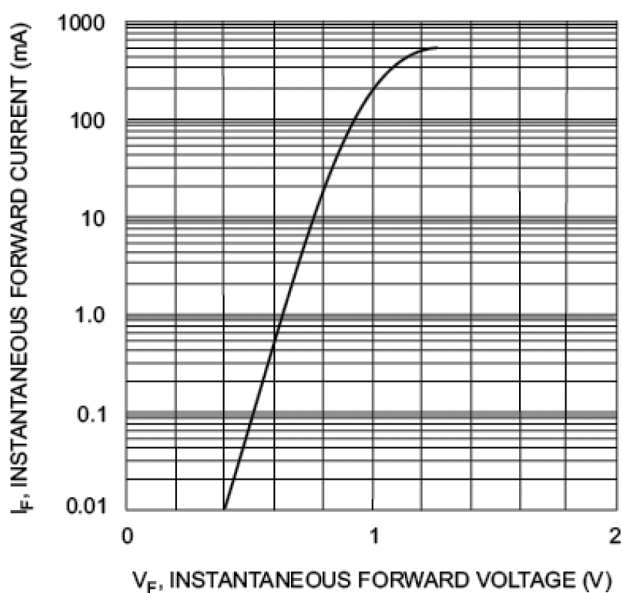


Fig. 1 Forward Characteristics

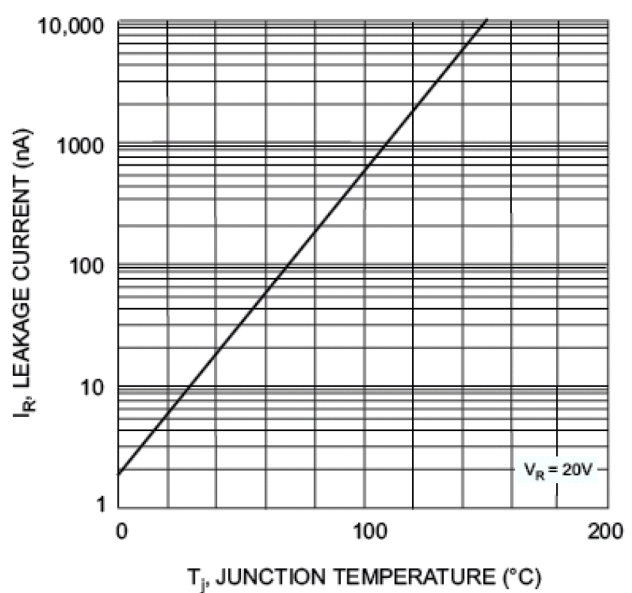


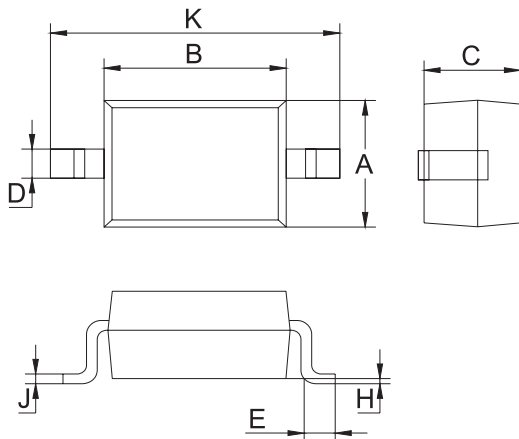
Fig. 2 Leakage Current vs Junction Temperature

Surface Mount Fast Switching Diode

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Package Outline:

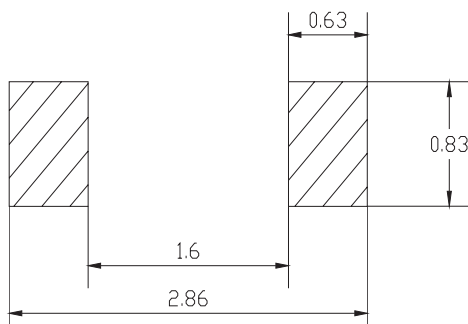
Plastic surface mounted package



SOD-323		
Dim.	Min.	Max.
A	1.275	1.325
B	1.675	1.725
C	0.95 Typ.	
D	0.25	0.35
E	0.27	0.37
H	0.02	0.1
J	0.1 Typ.	
K	2.6	2.7

Dimensions : Millimetres

Soldering Footprint:



Package Information:

Device	Package	Shipping
1N4448WS-7-F	SOD-323	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Surface Mount Fast Switching Diode	1N4448WS-7-F

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