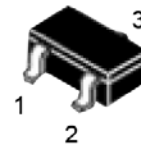
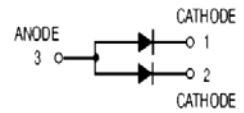


Surface Mount Schottky Barrier Diode



SOT-323

Features:

- Low Forward Voltage Drop
- Fast Switching
- Ultra-Small Surface Mount Package
- PN Junction Guard Ring For Transient and ESD Protection

Applications:

- For general purpose switching applications

Maximum Ratings:

T_A = 25°C unless otherwise specified.

Parameter	Symbol	Limits	Unit
RMS reverse voltage	V _{R(RMS)}	28	V
Repetitive Peak reverse voltage	V _{RRM}	40	V
Working peak reverse voltage	V _{RWM}		
Diode reverse voltage	V _R		
Forward continuous current	I _F	200	mA
Non-Repetitive peak forward surge Current at t=1μs	I _{FS}	600	mA
Power dissipation	P _D	200	mW
Junction and storage temperature range	T _j , T _{stg}	-65 to +150	°C

Surface Mount Schottky Barrier Diode



Electrical Characteristics:

T_A = 25°C unless otherwise specified.

Parameter	Symbol	Test conditions	Min.	Max.	Unit
Reverse breakdown voltage	V _{(BR)R}	I _R = 10μA	40		V
Reverse voltage leakage current	I _R	V _R = 30V		200	nA
Forward voltage	V _F	I _F = 1mA I _F = 40mA		380 1,000	mV
Diode capacitance	C _D	V _R = 0V, f = 1MHz		5	pF
Reverse recovery time	t _{rr}	I _F = I _R = 10mA, R _L = 100Ω		5	nS

Typical Characteristics:

T_A = 25°C unless otherwise specified.

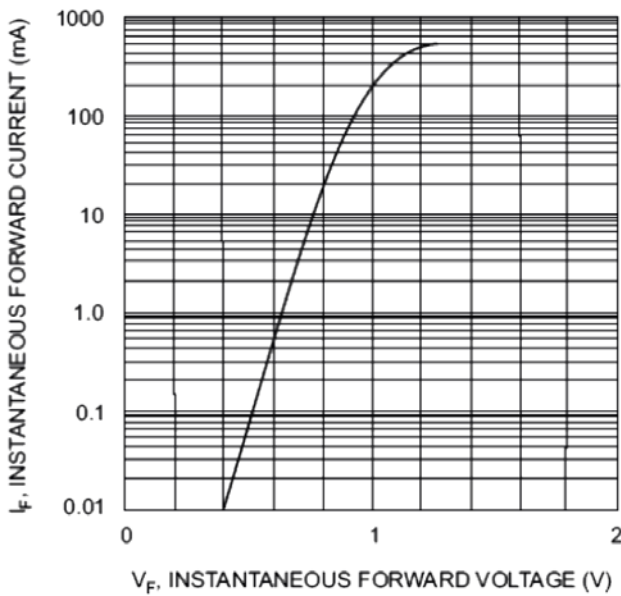


Fig. 1 Forward Characteristics

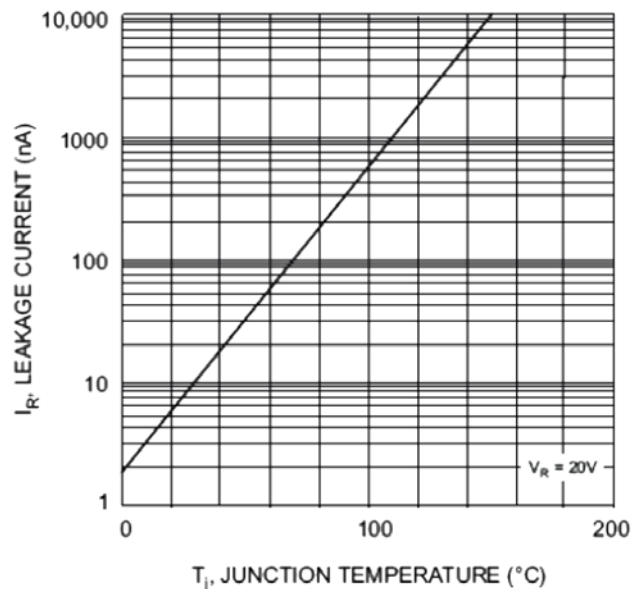


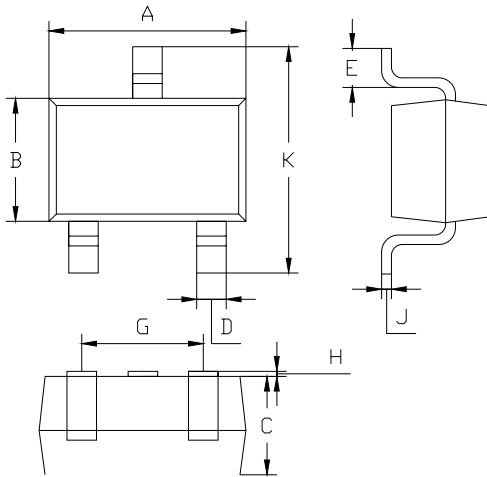
Fig. 2 Leakage Current vs Junction Temperature

Surface Mount Schottky Barrier Diode



Package Outline:

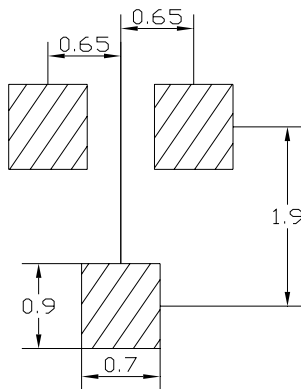
Plastic surface mounted package



SOT-323		
Dim.	Min.	Max.
A	1.8	2.2
B	1.15	1.35
C	1 Typ.	
D	0.15	0.35
E	0.25	0.4
G	1.2	1.4
H	0.02	0.1
J	0.1 Typ.	
K	2.1	2.3

Dimensions : Millimetres

Soldering Footprint:



Dimensions : Millimetres

Package Information:

Device	Package	Shipping
BAS40W-04-7-F	SOT-323	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Surface Mount Schottky Barrier Diode	BAS40W-04-7-F

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