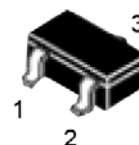
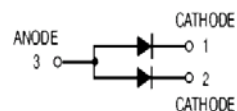


Surface Mount Schottky Barrier Diode



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:

$T_A = 25^{\circ}\text{C}$ unless otherwise specified.

Parameter	Symbol	Limits	Unit
RMS reverse voltage	$V_{R(RMS)}$	28	V
Repetitive Peak reverse voltage Working peak reverse voltage Diode reverse voltage	V_{RRM} V_{RWM} V_R	40	V
Forward continuous current	I_F	200	mA
Non-Repetitive peak forward surge Current at $t=1\mu\text{s}$	I_{FS}	600	mA
Power dissipation	P_D	200	mW
Junction and storage temperature range	T_j, T_{stg}	-65 to +150	$^{\circ}\text{C}$

Surface Mount Schottky Barrier Diode



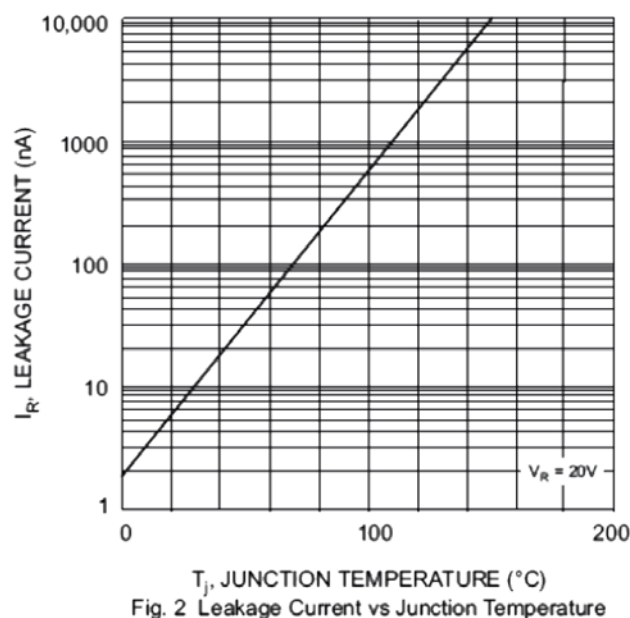
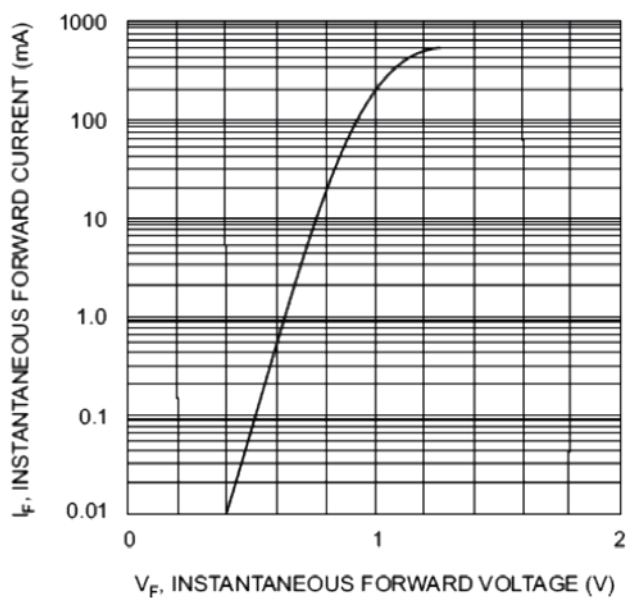
Electrical Characteristics:

$T_A = 25^\circ\text{C}$ unless otherwise specified.

Parameter	Symbol	Test conditions	Min.	Max.	Unit
Reverse breakdown voltage	$V_{(BR)R}$	$I_R = 10\mu\text{A}$	40		V
Reverse voltage leakage current	I_R	$V_R = 30\text{V}$		200	nA
Forward voltage	V_F	$I_F = 1\text{mA}$ $I_F = 40\text{mA}$		380 1,000	mV
Diode capacitance	C_D	$V_R = 0\text{V}$, $f = 1\text{MHz}$		5	pF
Reverse recovery time	t_{rr}	$I_F = I_R = 10\text{mA}$, $R_L = 100\Omega$		5	nS

Typical Characteristics:

$T_A = 25^\circ\text{C}$ unless otherwise specified.

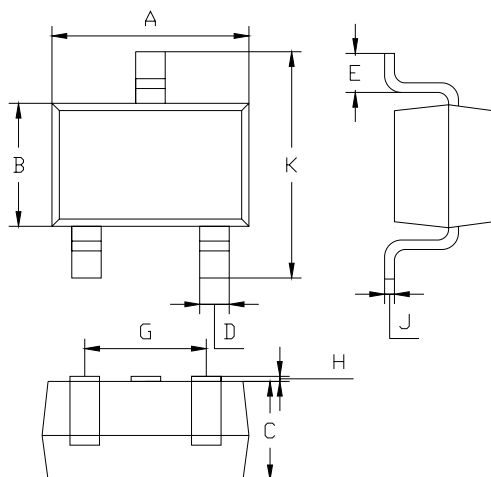


Surface Mount Schottky Barrier Diode



Package Outline:

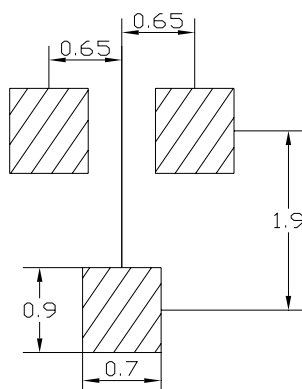
Plastic surface mounted package



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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