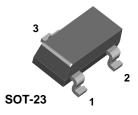
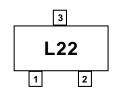
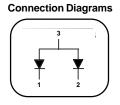


BAS35







General Purpose High Voltage Diode

Sourced from Process 1H. See MMBD1401 for characteristics.

Absolute Maximum Ratings* TA = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
W _{IV}	Working Inverse Voltage	120	V
I _{F(AV)}	Average Rectified Current	200	mA
I _F	DC Forward Current	600	mA
I _{FRM}	Recurrent Peak Forward Current	700	mA
I _{FSM}	Non-repetitive Peak Forward Surge Current Pulse width = 1.0 second Pulse width = 1.0 microsecond	1.0 2.0	A A
T _{stg}	Storage Temperature Range	-55 to +150	°C
TJ	Operating Junction Temperature	150	°C

^{*}These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.

1) These ratings are based on a maximum junction temperature of 150 degrees C.
2) These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

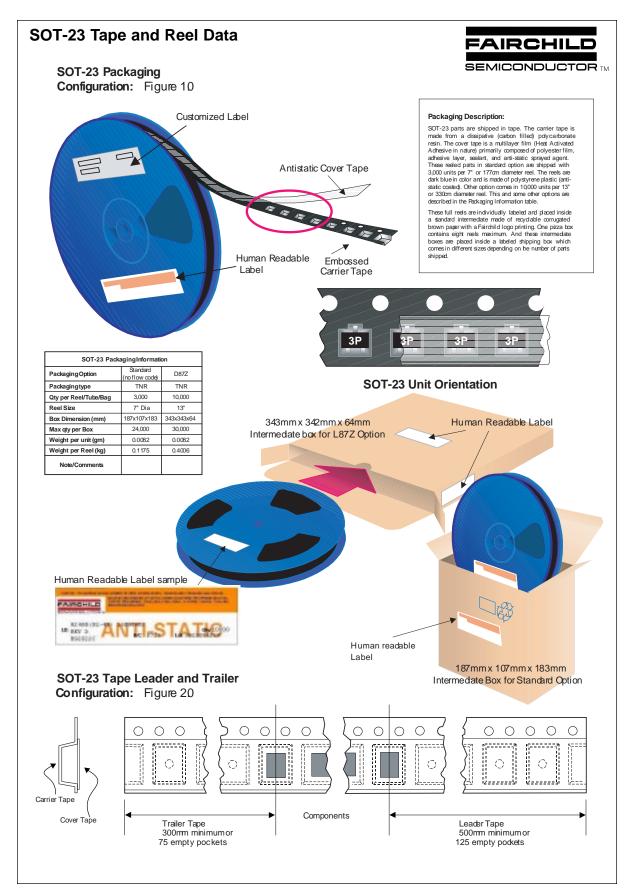
Thermal Characteristics TA = 25°C unless otherwise noted

Symbol	Parameter	Max	Units	
		BAS35		
P _D	Total Device Dissipation Derate above 25°C	350 2.8	mW mW/°C	
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	357	°C/W	

General Purpose High Voltage Diode (continued)

Electrical Characteristics TA = 25°C unless otherwise noted

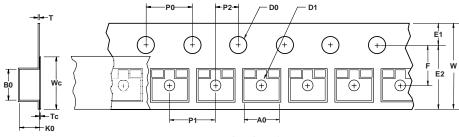
Symbol	Parameter	Test Conditions	Min	Max	Units
V_R	Breakdown Voltage	I _R = 1.0 mA	120		V
I _{RM}	Maximum Instantaneous Reverse Voltage Leakage Current	V _R = 90 V V _R = 90 V, T _A = 150 °C		100 100	nA μA
V _{FM}	Maximum Instantaneous Forward Voltage	$I_F = 10 \text{ mA}$ $I_F = 50 \text{ mA}$ $I_F = 100 \text{ mA}$ $I_F = 100 \text{ mA}$ $I_F = 200 \text{ mA}$ $I_F = 400 \text{ mA}$		0.75 0.84 0.90 1.0 1.25	V V V V
Co	Diode Capacitance	V _R = 0, f = 1.0 MHz		35	pF
t _{rr}	Reverse Recovery Time	$I_F = I_R = 30 \text{ mA}, I_{RR} = 3.0 \text{ mA},$ $R_L = 100 \Omega$		50	ns



SOT-23 Tape and Reel Data, continued

SOT-23 Embossed Carrier Tape

Configuration: Figure 3.0



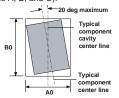
User Direction of Feed	_

					Di	mension	s are in r	nillimete	r					
Pkg type	Pkg type A0 B0 W D0 D1 E1 E2 F P1 P0 K0 T Wc Tc													
SOT-23 (8mm)	3.15 +/-0.10	2.77 +/-0.10	8.0 +/-0.3	1.55 +/-0.05	1.125 +/-0.125	1.75 +/-0.10	6.25 min	3.50 +/-0.05	4.0 +/-0.1	4.0 +/-0.1	1.30 +/-0.10	0.228 +/-0.013	5.2 +/-0.3	0.06 +/-0.02

Notes: A0, B0, and K0 dimensions are determined with respect to the EIA/Jedec RS-481 rotational and lateral movement requirements (see sketches A, B, and C).



Sketch A (Side or Front Sectional View)
Component Rotation

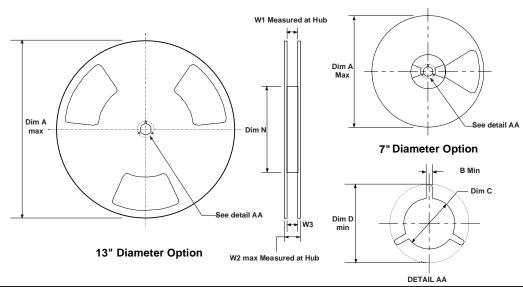


Sketch B (Top View)
Component Rotation



Sketch C (Top View)
Component lateral movement

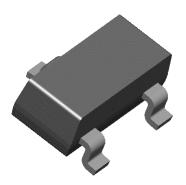
SOT-23 Reel Configuration: Figure 4.0

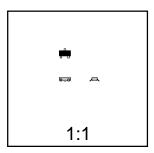


	Dimensions are in inches and millimeters								
Tape Size	Reel Option	Dim A	Dim B	Dim C	Dim D	Dim N	Dim W1	Dim W2	Dim W3 (LSL-USL)
8mm	7" Dia	7.00 177.8	0.059 1.5	512 +0.020/-0.008 13 +0.5/-0.2	0.795 20.2	2.165 55	0.331 +0.059/-0.000 8.4 +1.5/0	0.567 14.4	0.311 - 0.429 7.9 - 10.9
8mm	13" Dia	13.00 330	0.059 1.5	512 +0.020/-0.008 13 +0.5/-0.2	0.795 20.2	4.00 100	0.331 +0.059/-0.000 8.4 +1.5/0	0.567 14.4	0.311 - 0.429 7.9 - 10.9



SOT-23 (FS PKG Code 49)

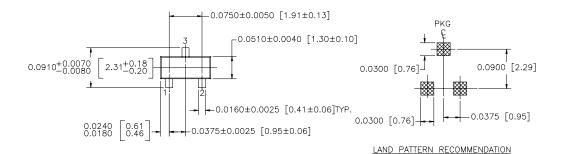


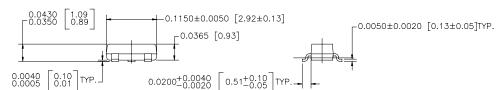


Scale 1:1 on letter size paper

Dimensions shown below are in: inches [millimeters]

Part Weight per unit (gram): 0.0082





CONTROLLING DIMENSION IS INCH VALUES IN [] ARE MILLIMETERS SOT 23, 3 LEADS LOW PROFILE

NOTE : UNLESS OTHERWISE SPECIFIED

- 1. STANDARD LEAD FINISH 150 MICROINCHES / 3.81 MICROMETERS MINIMUM TIN / LEAD (SOLDER) ON ALLOY 42
- 2. REFERENCE JEDEC REGISTRATION TO-236, VARIATION AB, ISSUE G, DATED JUL 1993

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