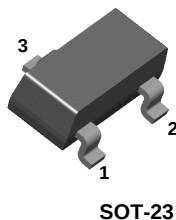
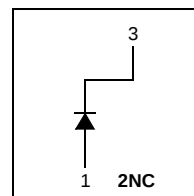


MMBD301



Connection Diagram



Small Signal Diode

Absolute Maximum Ratings * $T_A = 25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
V_{RRM}	Maximum Repetitive Reverse Voltage	30	V
$I_{F(AV)}$	Average Rectified Forward Current	200	mA
I_{FSM}	Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second	1.0	A
	Pulse Width = 1.0 microsecond	2.0	A
T_{STG}	Storage Temperature Range	-55 to +150	$^\circ\text{C}$
T_J	Operating Junction Temperature	-55 to +150	$^\circ\text{C}$

* These ratings are limiting values above which the serviceability of the diode may be impaired.

NOTES:

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

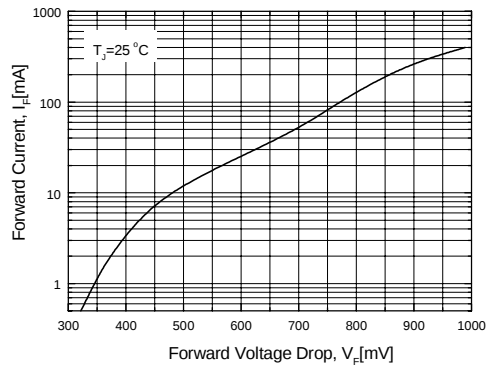
Absolute Maximum Ratings

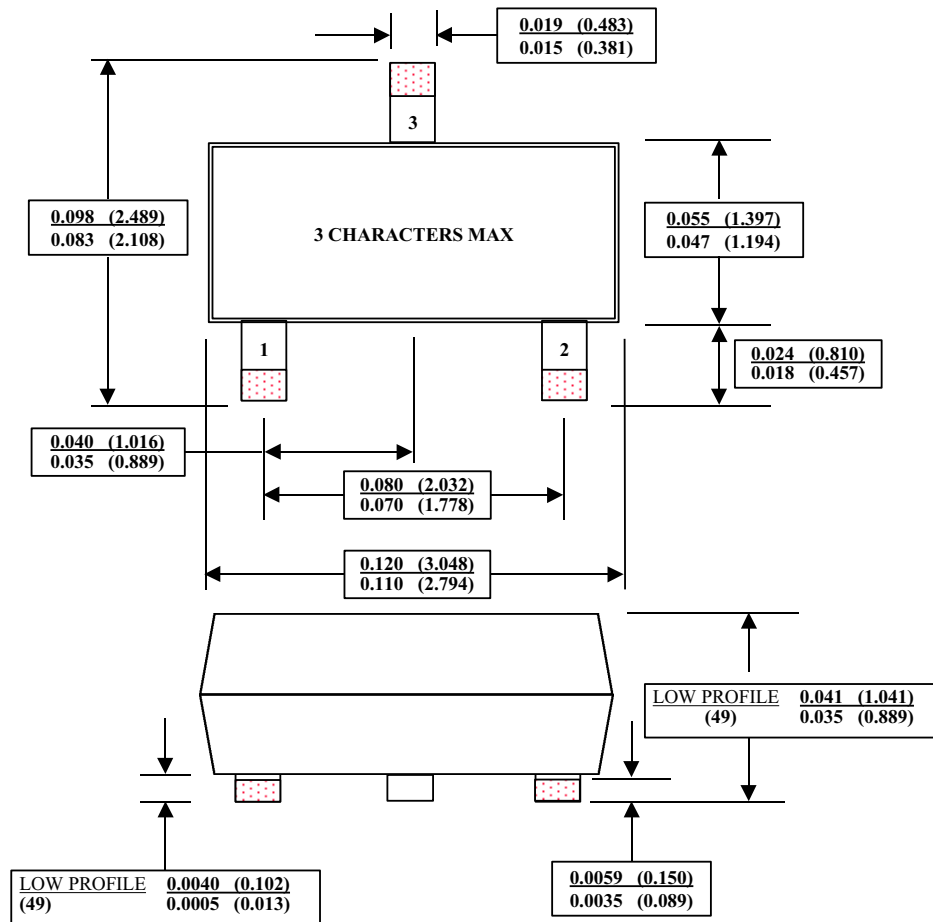
Symbol	Parameter	Value	Units
P_D	Power Dissipation	350	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	357	$^\circ\text{C}$

Electrical Characteristics $T_A = 25^\circ\text{C}$ unless otherwise noted

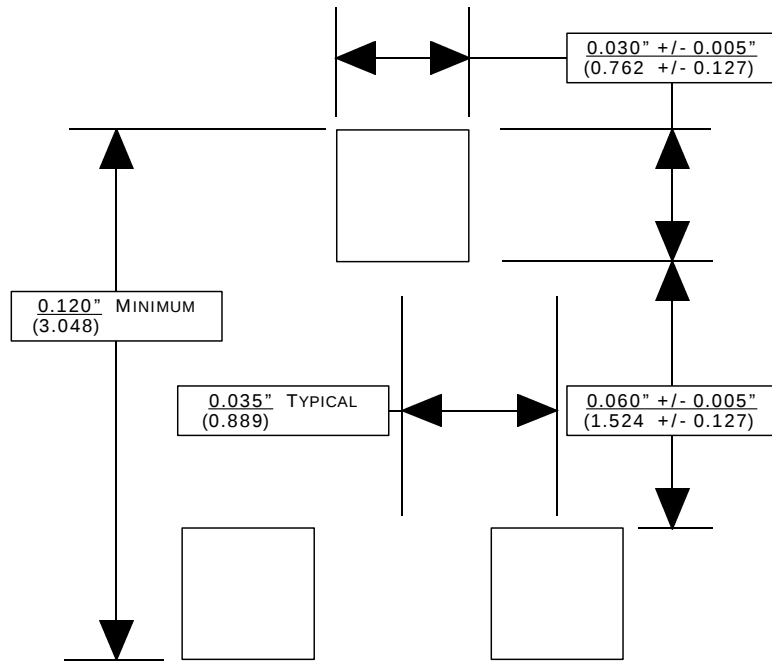
Symbol	Parameter	Test Conditions	Min.	Max.	Units
V_R	Breakdown Voltage	$I_R = 10\text{mA}$	30		V
V_F	Forward Voltage	$I_F = 1\text{mA}$		0.45	V
		$I_F = 10\text{mA}$		0.60	V
I_R	Reverse Leakage	$V_R = 25\text{V}$		200	nA
C_T	Total Capacitance	$V_R = 15\text{V}, f = 1.0\text{MHz}$		1.5	pF

Typical Characteristics

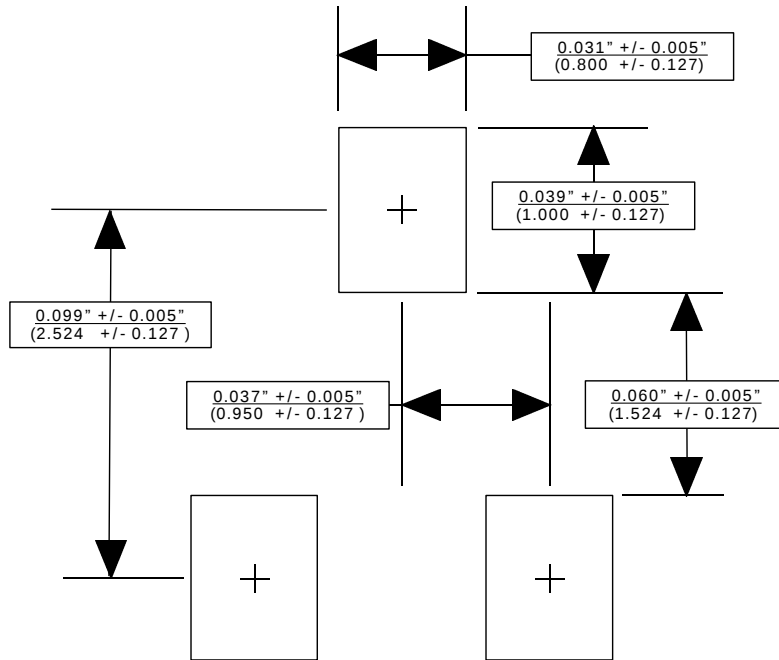




SOT-23
TO-236AB (LOW PROFILE)
22-August-1994



**RECOMMENDED SOLDER PADS
FOR
SOT-23**



**RECOMMENDED SOLDER PADS
FOR
U.S. & European SOT-23
&
Japanese SC-59**

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