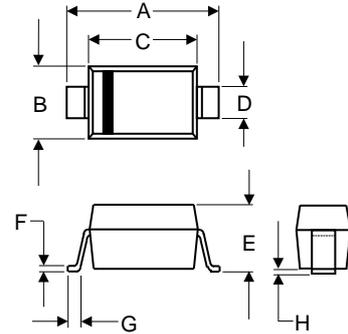


### Features

- \* Total power dissipation : max. 300 mW
- \* Small plastic package suitable for surface mounted design
- \* High reliability
- \* Silicon planar zener diode in a small plastic SMD SOD-323 package



**RoHS**  
COMPLIANT



SOD-323				
DIM.	INCHES		MM	
	MIN	MAX	MIN	MAX
A	0.091	0.110	2.30	2.80
B	0.045	0.053	1.15	1.35
C	0.063	0.071	1.60	1.80
D	0.010	0.016	0.25	0.40
E	0.031	0.043	0.80	1.10
F	---	0.006	---	0.15
G	0.004	0.020	0.10	0.50
H	---	0.004	---	0.10

### Maximum Ratings ( $T_A=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Value	Unit
Power Dissipation	$P_{\text{tot}}$	300	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{\text{Stg}}$	- 55 to + 150	$^\circ\text{C}$

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

Parameter	Symbol	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{\text{thA}}$	417	$^\circ\text{C}/\text{W}$
Forward Voltage at $I_F = 10 \text{ mA}$	$V_F$	0.9	V



## MM3Z2V2B THRU MM3Z39B

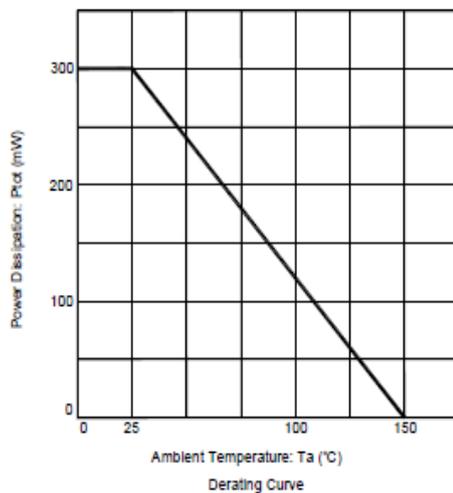
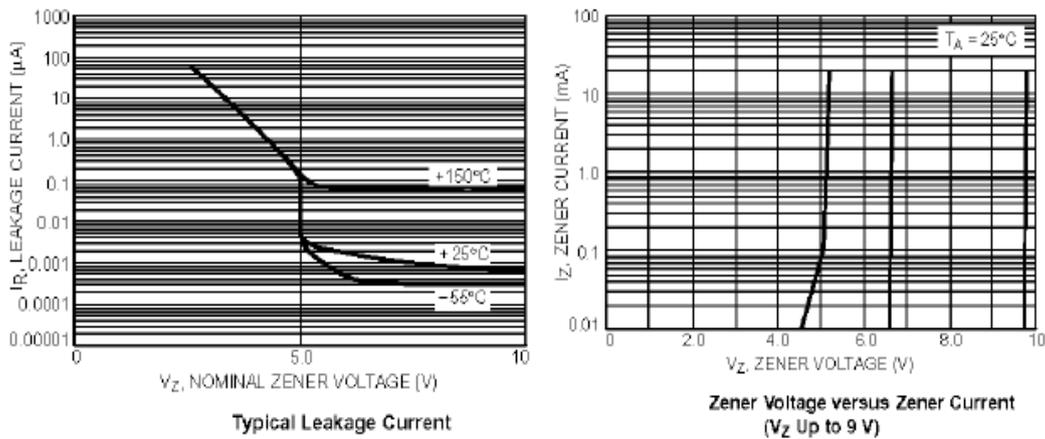
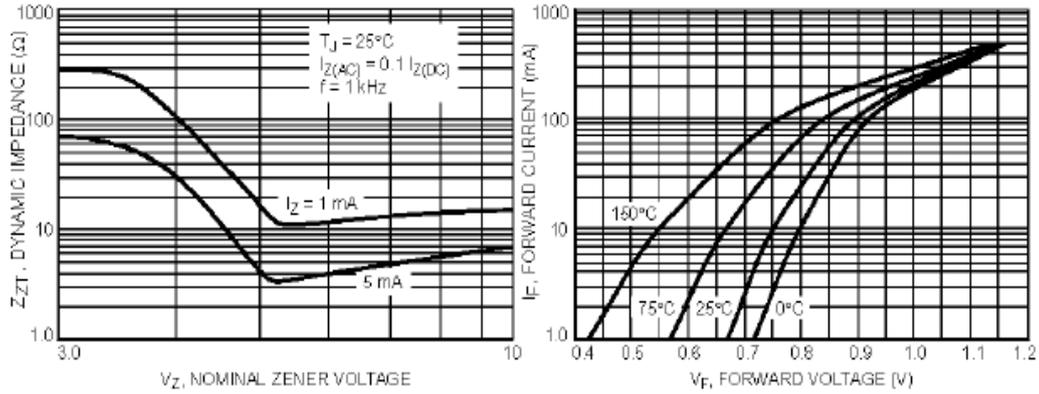
### Silicon Planar Zener Diodes

#### Electrical Characteristics (T<sub>A</sub>=25°C unless otherwise noted)

Type	Marking Code	Zener Voltage Range <sup>1)</sup>			Dynamic Impedance		Reverse Leakage Current	
		V <sub>znom</sub>	I <sub>ZT</sub>	for V <sub>ZT</sub>	Z <sub>ZT</sub> (Max.)	at I <sub>ZT</sub>	I <sub>R</sub> (Max.)	at V <sub>R</sub>
		V	mA	V	Ω	mA	μA	V
MM3Z2V2B	MF	2.2	5	2.1...2.4	100	5	120	0.7
MM3Z2V4B	7C	2.4	5	2.3...2.65	100	5	120	1
MM3Z2V7B	7D	2.7	5	2.65...2.95	110	5	120	1
MM3Z3V0B	7E	3	5	2.95...3.25	120	5	50	1
MM3Z3V3B	7F	3.3	5	3.25...3.55	120	5	20	1
MM3Z3V6B	7H	3.6	5	3.6...3.845	100	5	10	1
MM3Z3V9B	7J	3.9	5	3.89...4.16	100	5	5	1
MM3Z4V3B	7K	4.3	5	4.17...4.43	100	5	5	1
MM3Z4V7B	7M	4.7	5	4.55...4.75	100	5	2	1
MM3Z5V1B	7N	5.1	5	4.98...5.2	80	5	2	1.5
MM3Z5V6B	7P	5.6	5	5.49...5.73	60	5	1	2.5
MM3Z6V2B	7R	6.2	5	6.06...6.33	60	5	1	3
MM3Z6V8B	7X	6.8	5	6.65...6.93	40	5	0.5	3.5
MM3Z7V5B	7Y	7.5	5	7.28...7.6	30	5	0.5	4
MM3Z8V2B	7Z	8.2	5	8.02...8.36	30	5	0.5	5
MM3Z9V1B	8A	9.1	5	8.85...9.23	30	5	0.5	6
MM3Z10B	8B	10	5	9.77...10.21	30	5	0.1	7
MM3Z11B	8C	11	5	10.76...11.22	30	5	0.1	8
MM3Z12B	8D	12	5	11.74...12.24	30	5	0.1	9
MM3Z13B	8E	13	5	12.91...13.49	37	5	0.1	10
MM3Z15B	8F	15	5	14.34...14.98	42	5	0.1	11
MM3Z16B	8H	16	5	15.85...16.51	50	5	0.1	12
MM3Z18B	8J	18	5	17.56...18.35	65	5	0.1	13
MM3Z20B	8K	20	5	19.52...20.39	85	5	0.1	15
MM3Z22B	8M	22	5	21.54...22.47	100	5	0.1	17
MM3Z24B	8N	24	5	23.72...24.78	120	5	0.1	19
MM3Z27B	8P	27	5	26.19...27.53	150	5	0.1	21
MM3Z30B	8R	30	5	29.19...30.69	200	5	0.1	23
MM3Z33B	8X	33	5	32.15...33.79	250	5	0.1	25
MM3Z36B	8Y	36	5	35.07...36.87	300	5	0.1	27
MM3Z39B	8Z	39	5	37...41	100	5	2	30

Note: 1) V<sub>Z</sub> is tested with pulses (20 ms).

### Ratings and Characteristic Curves





## MM3Z2V2B THRU MM3Z39B

*Silicon Planar Zener Diodes*

### Ordering Information

Part No.	Package	Packing Code	Packing
MM3Z2V2B THRU MM3Z39B	SOD-323	R30	3000pcs/Reel

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