

**MM3Zxxx-5**  
**Silicon Planar Zener Diodes**

Revision:B

**General Description**

Silicon planar zener diode in a small plastic SMD SOD-323 package.

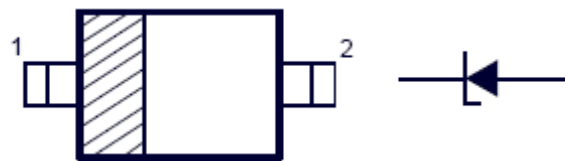
**Features**

- Total power dissipation: max. 500mW
- Small plastic package suitable for surface mounted design
- Tolerance approximately  $\pm 5\%$

**Functional diagram**



SOD-323



Note: 1-Cathode;2-Anode

**Absolute Maximum Ratings ( $T_a=25^\circ\text{C}$ )**

Symbol	Parameter	Value	Unit
	Zener Current see Table "Characteristics"		
$P_{tot}$	Power Dissipation	500	mW
$T_j$	Junction Temperature	175	$^\circ\text{C}$
$T_s$	Storage Temperature Range	-55 to +175	$^\circ\text{C}$

**Characteristics at  $T_{amb}=25^\circ\text{C}$**

	Symbol	Min.	Typ.	Max.	Unit
Thermal Resistance Junction to Ambient Air	$R_{thA}$	---	---	0.3	K/mW
Forward Voltage at $I_F=100\text{mA}$	$V_F$	---	---	1	V

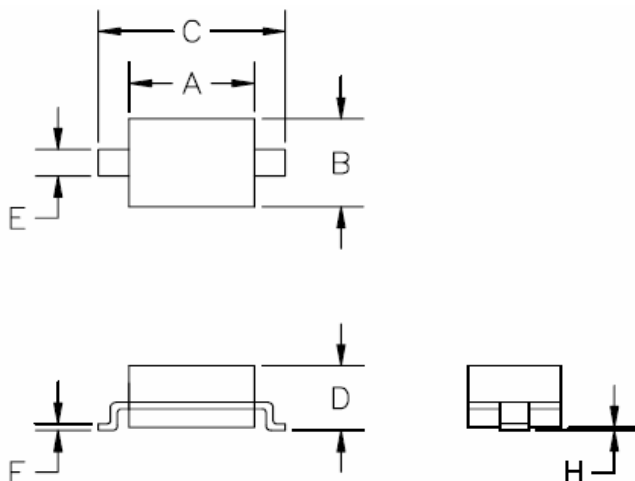
# MM3Zxxx-5

## Electrical Characteristics

Type	Zener Voltage Range			Dynamic Impedance		Revers Leakage Current		Temp. coefficient of Zener Voltage
	$V_{znom}$	$I_{zT}$ for $V_{zT}$		$Z_z(Max)$ at $I_z$		$I_R(Max)$ at $V_R$		TKvz %/K
	V	mA	V	$\Omega$	mA	$\mu A$	V	
MM3Z5V1-5	5.1	5	5.1...5.6	130	5	2	4.2	-0.02...+0.02
MM3Z5V6-5	5.6	5	5.2...6.0	80	5	2	4.5	-0.02...+0.02
MM3Z6V2-5	6.2	5	5.8...6.6	50	5	2	5.0	-0.02...+0.02
MM3Z6V8-5	6.8	5	6.4...7.2	30	5	2	3.5	0.03...0.07

- 1)  $V_z$  is tested with pulses (20 ms).
- 2)  $Z_z$  is measured at  $I_z$  by given a very small A.C. current signal.

## SOD-323 Mechanical Data



Dim	Dimensions			
	Inches		Mil	
	Min	Max	Min	Max
A	0.060	0.071	1.5	1.8
B	0.045	0.054	1.2	1.4
C	0.060	0.107	2.3	2.7
D	-	0.043	-	1.1
E	0.012	0.016	0.3	0.4
F	0.004	0.010	0.10	0.25
H	-	0.004	-	0.10

**CONTROLLING DIMENSION: MILLIMETERS**

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**Add:** Building 3, Room 3401-03, No.200 Zhangheng Road,  
ZhangJiang Hi-Tech Park, Pudong, Shanghai 201203, China

**Phone:** +86-21-33932402 33932403

33932405 33933508 33933608

**Fax:** +86-21-33932401

**Email:** szrxw002@126.com

**Website:** <http://www.sino-ic.net>