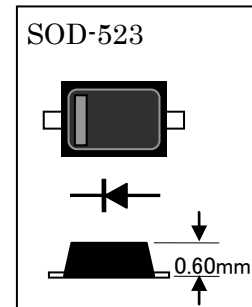


# MM5Z Series

- ◇ Constant Voltage control
- ◇ Wide Voltage Range Selection 2.4V to 75V
- ◇ **SOD523 Thin** SMD package
- ◇ RoHS compliant / Green EMC
- ◇ Matte Tin (Sn) Lead finish
- ◇ Cathode Band / Device marking

Refer to table list



## Maximum Ratings (Ta = 25 °C)

※Mark: refer to Device Marking

Symbol	Parameter	Value	Units
$P_D$	Power Dissipation	150	mW
$T_J$	Junction Temperature	125	°C
$T_{STG}$	Storage Temperature	-55 to +125	°C
$I_{ZM}$	Maximum Regulator Current	$P_D/V_Z$	mA

## Electrical Characteristics (Ta = 25 °C)

Type Number	Device Marking	$V_Z$ (V) <sup>*1</sup>			$I_{ZT}$ mA	$Z_{ZT}@I_{ZT}$ $\Omega$	$Z_{ZK}@I_{ZK}$ $\Omega$	$I_{ZK}$ (mA)	$I_R$ ( $\mu$ A)	$V_R$ (V)
		Nom(V)	Min(V)	Max(V)						
MM5Z2V4	Z11	2.4	2.20	2.60	5	100	600	1.0	50	1.0
MM5Z2V7	Z12	2.7	2.5	2.9	5	100	600	1.0	20	1.0
MM5Z3V0	Z13	3.0	2.8	3.2	5	95	600	1.0	10	1.0
MM5Z3V3	Z14	3.3	3.1	3.5	5	95	600	1.0	5	1.0
MM5Z3V6	Z15	3.6	3.4	3.8	5	90	600	1.0	5	1.0
MM5Z3V9	Z16	3.9	3.7	4.1	5	90	600	1.0	3	1.0
MM5Z4V3	Z17	4.3	4.0	4.6	5	90	600	1.0	3	1.0
MM5Z4V7	Z1	4.7	4.4	5.0	5	80	500	1.0	3	2.0
MM5Z5V1	Z2	5.1	4.8	5.4	5	60	480	1.0	2	2.0
MM5Z5V6	Z3	5.6	5.2	6.0	5	40	400	1.0	1	2.0
MM5Z6V2	Z4	6.2	5.8	6.6	5	10	150	1.0	3	4.0

Continued next page

# MM5Z Series

## Electrical Characteristics (Ta = 25 °C)

Type Number	Device Marking	Vz (V) *1			I <sub>ZT</sub>	Z <sub>ZT</sub> @I <sub>ZT</sub>	Z <sub>ZK</sub> @I <sub>ZK</sub>	I <sub>ZK</sub>	I <sub>R</sub>	V <sub>R</sub>
		Nom(V)	Min(V)	Max(V)	mA	Ω		(mA)	(uA)	(V)
MM5Z6V8	Z5	6.8	6.4	7.2	5	15	80	1.0	2	4.0
MM5Z7V5	Z6	7.5	7.0	7.9	5	15	80	1.0	1	5.0
MM5Z8V2	Z7	8.2	7.7	8.7	5	15	80	1.0	0.7	5.0
MM5Z9V1	Z8	9.1	8.5	9.6	5	15	100	1.0	0.5	6.0
MM5Z10V	Z9	10.0	9.4	10.6	5	20	150	1.0	0.2	7.0
MM5Z11V	Y1	11.0	10.4	11.6	5	20	150	1.0	0.1	8.0
MM5Z12V	Y2	12.0	11.40	12.7	5	25	150	1.0	0.1	8.0
MM5Z13V	Y3	13.0	12.40	14.10	5	30	170	1.0	0.1	8.0
MM5Z15V	Y4	15.0	13.8	15.6	5	30	200	1.0	0.1	10.5
MM5Z16V	Y5	16.0	15.3	17.1	5	40	200	1.0	0.1	11.2
MM5Z18V	Y6	18.0	16.8	19.1	5	45	225	1.0	0.1	12.6
MM5Z20V	Y7	20.0	18.8	21.2	5	55	225	1.0	0.1	14.0
MM5Z22V	Y8	22.0	20.8	23.3	5	55	250	1.0	0.1	15.4
MM5Z24V	Y9	24.0	22.80	25.6	5	70	250	1.0	0.1	16.8
MM5Z27V	Y10	27.0	25.1	28.9	2	80	300	0.5	0.1	18.9
MM5Z30V	Y11	30.0	28.0	32.0	2	80	300	0.5	0.1	21.0
MM5Z33V	Y12	33.0	31.0	35.0	2	80	325	0.5	0.1	23.1
MM5Z36V	Y13	36.0	34.0	38.0	2	90	350	0.5	0.1	25.2
MM5Z39V	Y14	39.0	37.0	41.0	2	130	350	0.5	0.1	27.3
MM5Z43V	Y15	43.0	40.0	46.0	2	100	700	1	0.1	32
MM5Z47V	V1	47.0	44.65	49.35	2	170	1000	0.25	0.1	36
MM5Z51V	V2	51.0	48.45	53.55	2	180	1300	0.25	0.1	39
MM5Z56V	V3	56.0	53.20	58.80	2	200	1400	0.25	0.1	43
MM5Z62V	V4	62.0	58.90	65.10	2	225	1400	0.25	0.1	47
MM5Z68V	V5	68.0	64.60	71.40	2	240	1600	0.25	0.1	52
MM5Z75V	V6	75.0	71.25	78.75	2	265	1700	0.25	0.1	56

\*1 Pulse width = 10 ms

# MM5Z Series

## Package Dimensions

