

MMSZ52xxxT1G Series, SZMMSZ52xxxT1G Series

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted, $V_F = 0.95\text{ V Max. @ } I_F = 10\text{ mA}$)

Symbol	Parameter
V_Z	Reverse Zener Voltage @ I_{ZT}
I_{ZT}	Reverse Current
Z_{ZT}	Maximum Zener Impedance @ I_{ZT}
I_{ZK}	Reverse Current
Z_{ZK}	Maximum Zener Impedance @ I_{ZK}
I_R	Reverse Leakage Current @ V_R
V_R	Reverse Voltage
I_F	Forward Current

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2% TOLERANCE FG ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted, $V_F = 0.9\text{ V Max.}$ @ $I_F = 10\text{ mA}$)

Device*	Device Marking	Zener Voltage (Notes 6 and 7)			Zener Impedance (Note 8)			Leakage Current		
		V _Z (Volts)			@ I _{ZT}	Z _{ZT} @ I _{ZT}	Z _{ZK} @ I _{ZK}		I _R @ V _R	
		Min	Nom	Max	mA	Ω	Ω	mA	μA	Volts
MMSZ5226CT1G	TD	3.234	3.3	3.366	20	28	1600	0.25	25	1
MMSZ5231CT1G	TG	4.998	5.1	5.202	20	17	1600	0.25	5	2
MMSZ5232CT1G	TH	5.488	5.6	5.712	20	11	1600	0.25	5	3
MMSZ5245CT1G	TK	14.70	15	15.30	8.5	16	600	0.25	0.1	11
MMSZ5248CT1G	TL	17.64	18	18.36	7.0	21	600	0.25	0.1	14
MMSZ5250CT1G	TN	19.60	20	20.40	6.2	25	600	0.25	0.1	15
MMSZ5252CT1G	TQ	23.52	24	24.48	5.2	33	600	0.25	0.1	18
MMSZ5256CT1G	TW	29.40	30	30.60	4.2	49	600	0.25	0.1	23
MMSZ5258CT1G	TX	35.28	36	36.72	3.4	70	700	0.25	0.1	27

6. "C" Suffix Type numbers shown have a standard tolerance of $\pm 2\%$ on the nominal Zener voltages.

7. Nominal Zener voltage is measured with the device junction in thermal equilibrium at $T_L = 30^\circ\text{C} \pm 1^\circ\text{C}$.

8. Z_{ZT} and Z_{ZK} are measured by dividing the AC voltage drop across the device by the ac current applied.

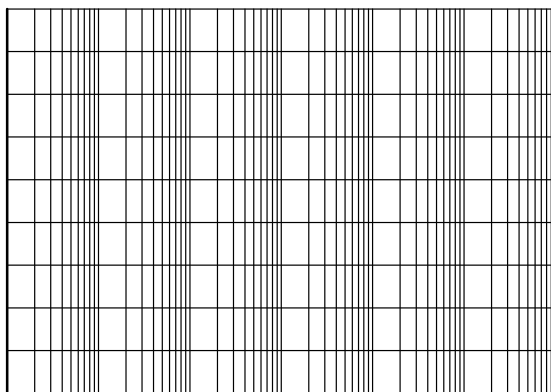
The specified limits are for $I_{Z(AC)} = 0.1 I_{Z(dc)}$ with the AC frequency = 1 kHz.

*Includes SZ-prefix devices where applicable.



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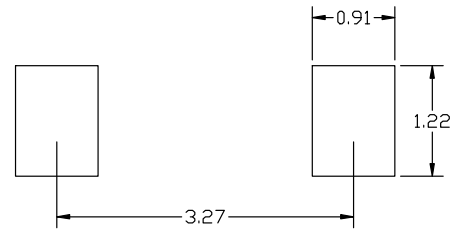
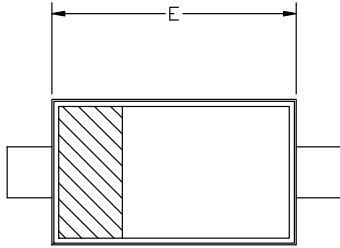
TYPICAL CHARACTERISTICS





SOD-123 2-LEAD, 1.60x2.69x1.16
CASE 425
ISSUE H

DATE 29 FEB 2024



**GENERIC
MARKING DIAGRAM***



- XXX = Specific Device Code
- M = Date Code
- = Pb-Free Package

(Note: Microdot may be in either location)

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "▪", may or may not be present. Some products may not follow the Generic Marking.

STYLE 1:
PIN 1. CATHODE
2. ANODE

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