

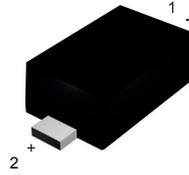
GSMMSZ4678T thru GSMMSZ4716T

Zener Diodes

V_z Range: 1.8V to 39V Power Dissipation: 200mW

Features

- Constant voltage control
- Wide voltage range selection 1.8V to 39V
- Matte tin (Sn) lead finish



SOD-523



Schematic Diagram

Absolute Maximum Ratings (T_A=25°C unless otherwise noted)

Parameter	Symbol	Value	Units
Power Dissipation ¹	P _D	200	mW
Maximum Regulator Current	I _{ZM}	P _D /V _Z	mA
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{STG}	-55 to +125	°C

Electrical Characteristics (T_A=25°C unless otherwise noted)

Part Number	Marking Code	Zener Voltage ²				Leakage Current	
		V _Z @ I _{ZT}			I _{ZT} (μ A)	I _R @ V _R (μ A)	V _R (V)
		Min (V)	Nom (V)	Max (V)			
GSMMSZ4678T	CC	1.71	1.8	1.89	50	7.5	1
GSMMSZ4679T	CD	1.9	2	2.1	50	5	1
GSMMSZ4680T	CE	2.09	2.2	2.31	50	4	1
GSMMSZ4681T	CF	2.28	2.4	2.52	50	2	1
GSMMSZ4682T	CH	2.565	2.7	2.835	50	1	1
GSMMSZ4683T	CJ	2.85	3	3.15	50	0.8	1
GSMMSZ4684T	CK	3.135	3.3	3.465	50	7.5	1.5
GSMMSZ4685T	CM	3.42	3.6	3.78	50	7.5	2
GSMMSZ4686T	CN	3.705	3.9	4.095	50	5	2
GSMMSZ4687T	CP	4.085	4.3	4.515	50	4	2
GSMMSZ4688T	CT	4.465	4.7	4.935	50	10	3
GSMMSZ4689T	CU	4.845	5.1	5.355	50	10	3
GSMMSZ4690T	CV	5.32	5.6	5.88	50	10	4
GSMMSZ4691T	CA	5.89	6.2	6.51	50	10	5
GSMMSZ4692T	CX	6.46	6.8	7.14	50	10	5.1
GSMMSZ4693T	CY	7.125	7.5	7.875	50	10	5.7
GSMMSZ4694T	CZ	7.79	8.2	8.61	50	1	6.2
GSMMSZ4695T	DC	8.265	8.7	9.135	50	1	6.6
GSMMSZ4696T	DD	8.645	9.1	9.555	50	1	6.9
GSMMSZ4697T	DE	9.5	10	10.5	50	1	7.6
GSMMSZ4698T	DF	10.45	11	11.55	50	0.05	8.4
GSMMSZ4699T	DH	11.4	12	12.6	50	0.05	9.1
GSMMSZ4700T	DJ	12.35	13	13.65	50	0.05	9.8
GSMMSZ4701T	DK	13.3	14	14.7	50	0.05	10.6
GSMMSZ4702T	DM	14.25	15	15.75	50	0.05	11.4
GSMMSZ4703T	DN	15.2	16	16.8	50	0.05	12.1
GSMMSZ4704T	DP	16.15	17	17.85	50	0.05	12.9
GSMMSZ4705T	DT	17.1	18	18.9	50	0.05	13.6
GSMMSZ4706T	DU	18.05	19	19.95	50	0.05	14.4
GSMMSZ4707T	DV	19	20	21	50	0.01	15.2
GSMMSZ4708T	DA	20.9	22	23.1	50	0.01	16.7
GSMMSZ4709T	DX	22.8	24	25.2	50	0.01	18.2
GSMMSZ4710T	DY	23.75	25	26.25	50	0.01	19
GSMMSZ4711T	EA	25.65	27	28.35	50	0.01	20.4
GSMMSZ4712T	EC	26.6	28	29.4	50	0.01	21.2
GSMMSZ4713T	ED	28.5	30	31.5	50	0.01	22.8
GSMMSZ4714T	EE	31.35	33	34.65	50	0.01	25
GSMMSZ4715T	EF	34.2	36	37.8	50	0.01	27.3
GSMMSZ4716T	EH	37.05	39	40.95	50	0.01	29.6

Notes:

1. Diode on ceramic substrate 0.7mm, 5mm² pad areas.
2. Pulse width=10ms.

Typical Electrical Characteristic Curves

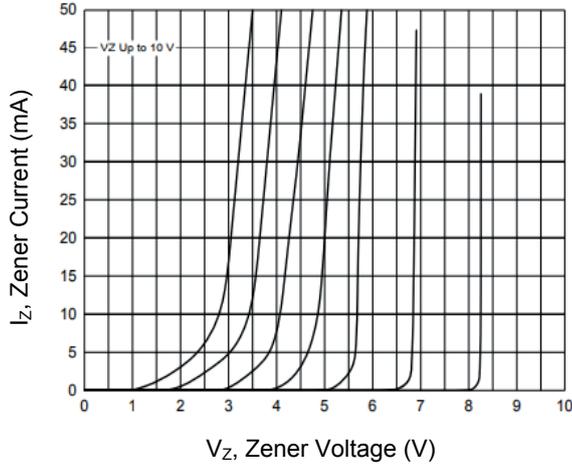


Figure 1. Typical Zener Voltage

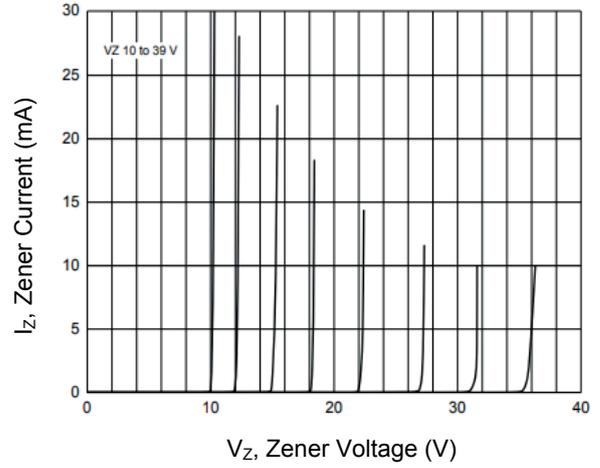


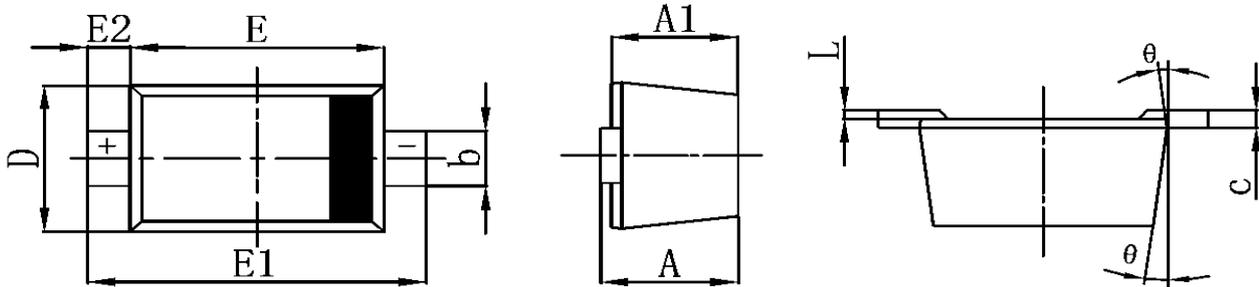
Figure 2. Typical Zener Voltage

GSMMSZ4678T thru GSMMSZ4716T

Zener Diodes

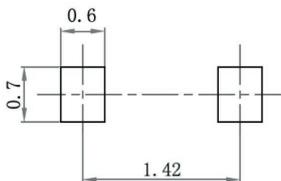
Vz Range: 1.8V to 39V Power Dissipation: 200mW

Package Outline Dimensions (SOD-523)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	0.510	0.700	0.020	0.028
A1	0.500	0.700	0.020	0.028
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	0.750	0.850	0.030	0.033
E	1.100	1.300	0.043	0.051
E1	1.500	1.700	0.059	0.067
E2	0.150	0.250	0.006	0.010
L	0.010	0.070	0.000	0.003
θ	7° REF		7° REF	

Recommended Pad Layout



Note:

1. Controlling dimension: in millimeters
2. General tolerance: $\pm 0.05\text{mm}$
3. The pad layout is for reference purposes only

Order Information

Device	Package	Packaging	SPQ
GSMMSZ4xxxT	SOD-523	Tape & Reel	8,000pcs / Reel