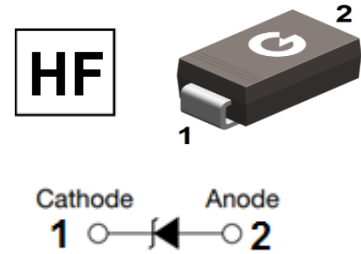


Zener Diodes

TSMAJ4728 - TSMAJ4764

Features

- For surface mounted applications
- 1.0 W power dissipation
- Low reverse current
- Ideally suited for automated assembly processes
- RoHS compliant with Halogen-free
- Qualified to AEC-Q101 Standards



Mechanical Data

- Case: SMA molded plastic
- Molding compound, UL flammability classification rating 94V-0
- Polarity: Color band denotes cathode end

Maximum Ratings (@T_A = 25°C unless otherwise specified)

Parameter	Symbol	Value	Unit
Power dissipation ^{*1}	P _D	1.0	W
Maximum instantaneous forward voltage@ I _F =0.2A	V _F	1.15	V
Half sine-wave superimposed on rated load JEDEC method ^{*2}	I _{FSM}	10	A
Typical Thermal Resistance ^{*3}	R _{θJA}	70	°C/W
	R _{θJC}	25	
	R _{θJL}	30	
Junction temperature	T _J	-55 ~ +150	°C
Storage temperature range	T _{STG}	-55 ~ +150	°C

Note^{*1}: Mounted on 5.0mm²(.013mm thick) land areas.

^{*2}: Mounted on 8.3ms, single half-sine wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

^{*3}: Device mounted on p.c.b. with 10 mm x 20 mm x 0.1 mm copper pad area

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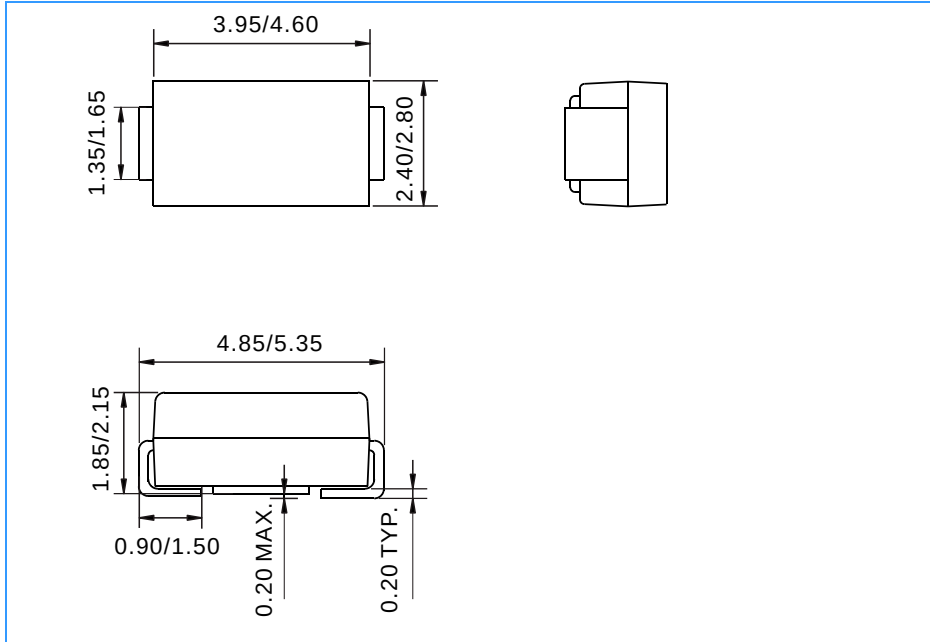
Electrical Characteristics (@T_A = 25°C unless otherwise specified)

Part No.	Marking Code	Zener voltage			Test current I _{ZT}	Dynamic impedance Z _{ZT}	Knee impedance Z _{ZK}	Knee current I _{ZK}	Reverse current	
		V _Z			I _{ZT}	Z _{ZT}	Z _{ZK}	I _{ZK}	I _R	V _R
		MIN	TYP	Max	mA	Ohm	Ohm	mA	uA	V
TSMAJ4728	4728	3.14	3.3	3.47	76.0	10.0	400	1.0	10	1.0
TSMAJ4731	4731	4.09	4.3	4.52	58.0	9.0	400	1.0	10	1.0
TSMAJ4733	4733	4.85	5.1	5.36	49.0	7.0	550	1.0	10	1.0
TSMAJ4734	4734	5.32	5.6	5.88	45.0	5.0	600	1.0	10	2.0
TSMAJ4735	4735	5.89	6.2	6.51	41.0	2.0	700	1.0	50	3.0
TSMAJ4736	4736	6.46	6.8	7.14	37.0	3.5	700	1.0	10	4.0
TSMAJ4737	4737	7.13	7.5	7.88	34.0	4.0	700	0.5	10	5.0
TSMAJ4738	4738	7.79	8.2	8.61	31.0	4.5	700	0.5	10	6.0
TSMAJ4739	4739	8.65	9.1	9.56	28.0	5.0	700	0.5	10	7.0
TSMAJ4740	4740	9.50	10	10.50	25.0	7.0	700	0.25	10	7.6
TSMAJ4741	4741	10.45	11	11.55	23.0	8.0	700	0.25	5	8.4
TSMAJ4742	4742	11.40	12	12.60	21.0	9.0	700	0.25	5	9.1
TSMAJ4743	4743	12.35	13	13.65	19.0	10.0	700	0.25	5	9.9
TSMAJ4744	4744	14.25	15	15.75	17.0	14.0	700	0.25	5	11.4
TSMAJ4745	4745	15.20	16	16.80	15.5	16.0	700	0.25	5	12.2
TSMAJ4746	4746	17.10	18	18.90	14.0	20.0	750	0.25	5	13.7
TSMAJ4747	4747	19.00	20	21.00	12.5	22.0	750	0.25	5	15.2
TSMAJ4748	4748	20.90	22	23.10	11.5	23.0	750	0.25	5	16.7
TSMAJ4749	4749	22.80	24	25.20	10.5	25.0	750	0.25	5	18.2
TSMAJ4750	4750	25.65	27	28.35	9.5	35.0	750	0.25	5	20.6
TSMAJ4751	4751	28.50	30	31.50	8.5	40.0	1000	0.25	5	22.8
TSMAJ4752	4752	31.35	33	34.65	7.5	45.0	1000	0.25	5	25.1
TSMAJ4753	4753	34.20	36	37.80	7.0	50.0	1000	0.25	5	27.4
TSMAJ4754	4754	37.05	39	40.95	6.5	60.0	1000	0.25	5	29.7
TSMAJ4755	4755	40.85	43	45.15	6.0	70.0	1500	0.25	5	32.7
TSMAJ4756	4756	44.65	47	49.35	5.5	80.0	1500	0.25	5	35.8
TSMAJ4757	4757	48.45	51	53.55	5.0	95.0	1500	0.25	5	38.8
TSMAJ4758	4758	53.20	56	58.80	4.5	110.0	2000	0.25	5	42.6
TSMAJ4759	4759	58.90	62	65.10	4.0	125.0	2000	0.25	5	47.1
TSMAJ4760	4760	64.60	68	71.40	3.7	150.0	2000	0.25	5	51.7
TSMAJ4761	4761	71.25	75	78.75	3.3	175.0	2000	0.25	5	56
TSMAJ4762	4762	77.90	82	86.10	3.0	200.0	3000	0.25	5	62.2
TSMAJ4763	4763	86.45	91	95.55	2.8	250.0	3000	0.25	5	69.2
TSMAJ4764	4764	95.00	100	105.0	2.5	350.0	3000	0.25	5	76

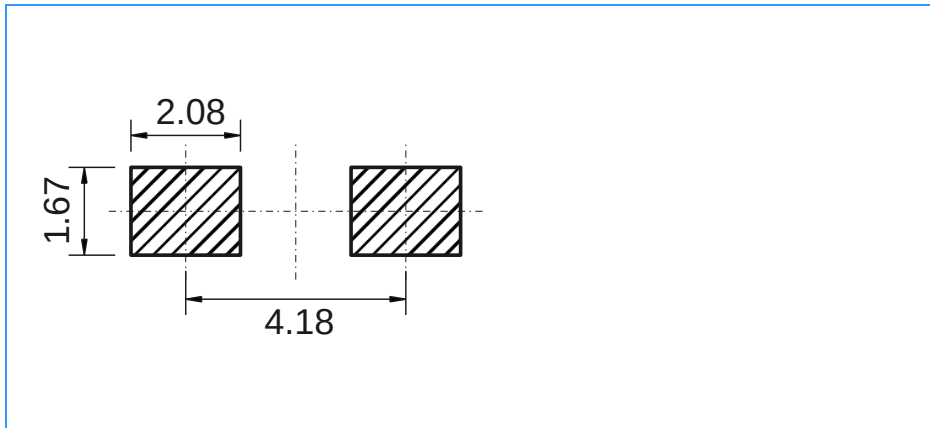
Zener Diodes

TSMAJ4728 - TSMAJ4764

Package Outline Dimensions (Unit: mm)



Mounting Pad Layout (Unit: mm)



Ordering Information

Part Number	Package	Shipping Quantity
TSMAJ4728- TSMAJ4764	SMA	5000 pcs / Tape & Reel