

YAZ1P5D3V3 THRU YAZ1P5D240

FEATURES

- Total power dissipation: Max.1.5W.
- Wide zener reverse voltage range 3.3V to 240V.
- Small plastic package suitable for surface mounted design

Mechanical Date

- Case: SMA
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.055g / 0.002oz

PIN	DESCRIPTION
1	Cathode
2	Anode



Absolute Maximum Ratings And Characteristics (Ta = 25 ° C)

Parameter	Symbol	Value	Unit
Power Dissipation	P _{tot}	1.5	W
Forward Voltage at IF = 10 mA	V _F	1.5	V
Operating and Storage Temperature Range	T _J , T _{stg}	-55~+150	°C

Electrical Characteristics (TA = 25 °C)

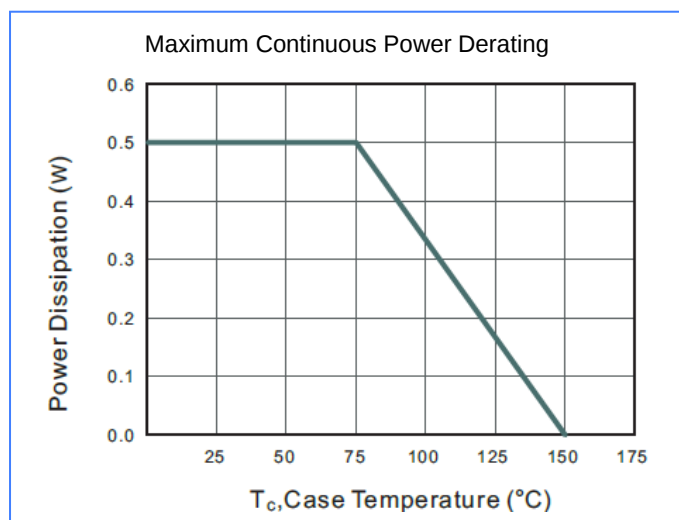
Type	Zener Voltage Range ⁽¹⁾			I _{ZT}	Dynamic Impedance	Reverse Current		Admissible Zener Current
	V _{ZT} (at I _{ZT})				Z _{ZT} (at I _{ZT})	IR	at VR	
	Min (V)	Nom (V)	Max (Ω)	(mA)	Max (Ω)	Max (μ A)	(V)	I _{ZM} (mA)
YAZ1P5D3V3	2.97	3.3	3.63	113.6	10	100	1	454
YAZ1P5D3V6	3.24	3.6	3.96	104.2	9	75	1	416
YAZ1P5D3V9	3.51	3.9	4.29	96.1	7.5	25	1	384
YAZ1P5D4V3	3.87	4.3	4.73	87.2	6	5	1	348
YAZ1P5D4V7	4.23	4.7	5.17	79.8	5	5	1.5	319
YAZ1P5D5V1	4.59	5.1	5.61	73.5	4	5	2	294
YAZ1P5D5V6	5.04	5.6	6.16	66.9	2	5	3	267
YAZ1P5D6V2	5.58	6.2	6.82	60.5	2	5	4	241
YAZ1P5D6V8	6.12	6.8	7.48	55	2.5	5	5.2	220
YAZ1P5D7V5	6.75	7.5	8.25	50	3	5	6	200
YAZ1P5D8V2	7.38	8.2	9.02	45.7	3.5	5	6.5	182
YAZ1P5D9V1	8.19	9.1	10.01	41.2	4	5	7	164
YAZ1P5D10	9	10	11	37.5	4.5	5	8	150
YAZ1P5D11	9.9	11	12.1	34	5.5	1	8.4	136
YAZ1P5D12	10.8	12	13.2	31.2	6.5	1	9	125
YAZ1P5D13	11.7	13	14.3	28.8	7	1	9.9	115
YAZ1P5D15	13.5	15	16.5	25	9	1	11.4	100
YAZ1P5D16	14.4	16	17.6	23.4	10	1	12.2	93
YAZ1P5D18	16.2	18	19.8	21	12	1	13.7	83

YAZ1P5D20	18	20	22	19	14	1	15.2	75
YAZ1P5D22	19.8	22	24.2	17	18	1	16.7	68
YAZ1P5D24	21.6	24	26.4	16	19	1	18.2	62
YAZ1P5D27	24.3	27	29.7	14	23	1	20.6	55
YAZ1P5D30	27	30	33	12.5	26	1	23	50
YAZ1P5D33	29.7	33	36.3	11.4	33	1	25	45
YAZ1P5D36	32.4	36	39.6	10.4	38	1	27	41
YAZ1P5D39	35.1	39	42.9	9.6	45	1	30	38
YAZ1P5D43	38.7	43	47.3	8.7	53	1	33	34
YAZ1P5D47	42.3	47	51.7	8	67	1	36	31
YAZ1P5D51	45.9	51	56.1	7.3	70	1	39	29
YAZ1P5D56	50.4	56	61.6	6.7	86	1	42	26
YAZ1P5D62	55.8	62	68.2	6	100	1	47	24
YAZ1P5D68	61.2	68	74.8	5.5	120	1	52	22
YAZ1P5D75	67.5	75	82.5	5	140	1	57	20
YAZ1P5D82	73.8	82	90.2	4.6	160	1	62	18
YAZ1P5D91	81.9	91	100.1	4.1	200	1	69	16
YAZ1P5D100	90	100	110	3.7	250	1	76	15
YAZ1P5D110	99	110	121	3.4	300	1	84	13
YAZ1P5D120	108	120	132	3.1	380	1	91	12
YAZ1P5D130	117	130	143	2.9	450	1	100	11
YAZ1P5D150	135	150	165	2.5	600	1	114	10
YAZ1P5D160	144	160	176	2.3	700	1	121.6	9
YAZ1P5D180	162	180	198	2.1	900	1	136.8	8
YAZ1P5D200	180	200	220	1.9	1200	1	152	7
YAZ1P5D240	216	240	264	1.5	1600	1	182.4	6

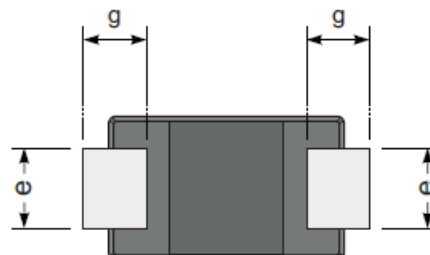
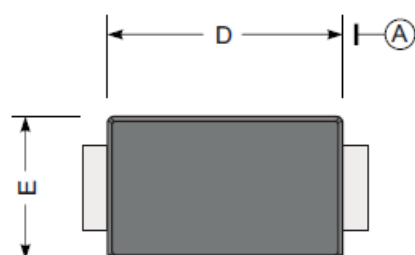
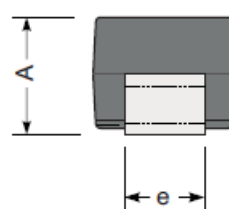
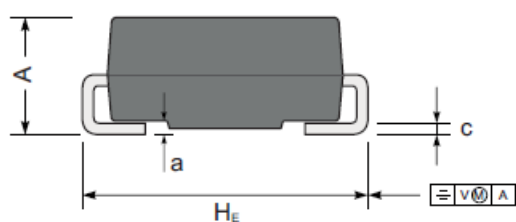
(1) Suffix "A" indicates $\pm 10\%$ tolerance, Suffix "B" indicates $\pm 5\%$ tolerance

(2) V_{ZT} is tested with pulses (20 ms)

Typical Characteristics

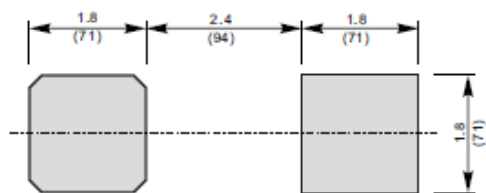


Package Outline



UNIT		A	D	E	H _E	c	e	g	a
mm	max	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.3
	min	1.9	4.0	2.3	4.7	0.15	1.3	0.9	
mil	max	87	181	106	205	12	63	59	12
	min	75	157	91	185	6	51	35	

The recommended mounting pad size



Unit : $\frac{\text{mm}}{(\text{mil})}$