

Features

- Low Zener Impedance
- Power Dissipation of 1W
- High Stability and High Reliability

Mechanical Data

- SMA Outline Plastic Package
- Color band denotes cathode end
- Mounting Position: Any

Maximum Ratings & Thermal Characteristics

(Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Power Dissipation	Pd	1 ₁₎	W
Forward Voltage @IF=200mA	V _F	1.2 ₂₎	V
Storage temperature range	Ts	-65 - +150	° C

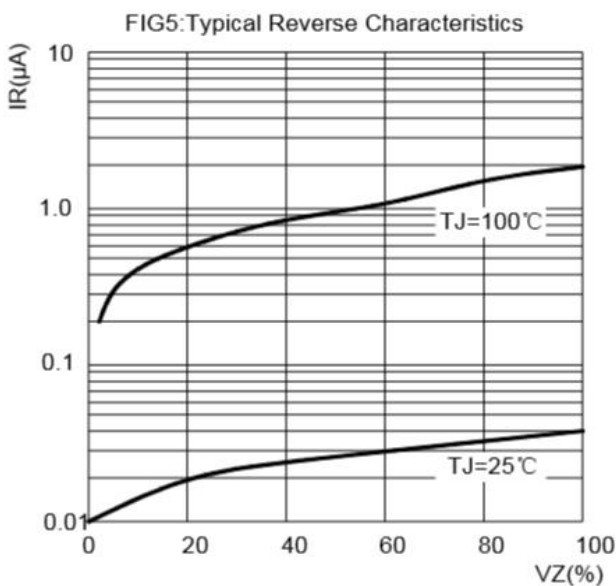
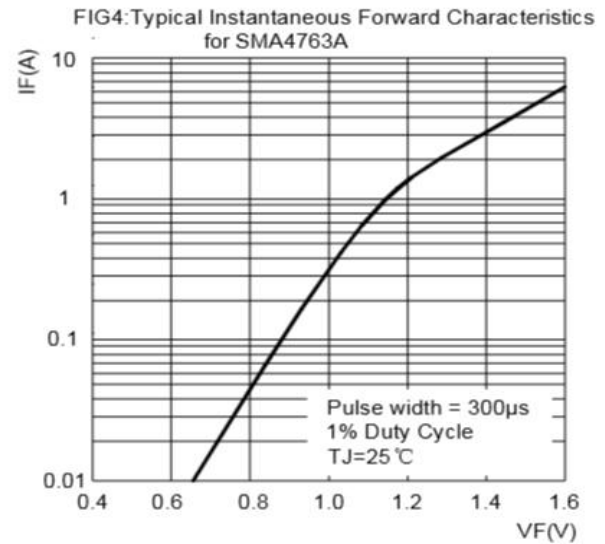
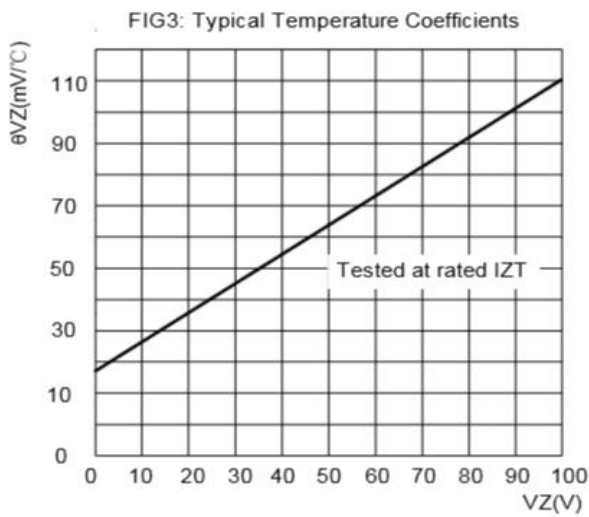
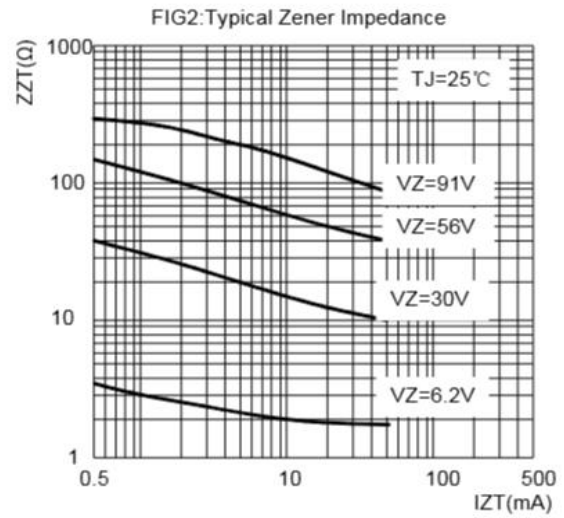
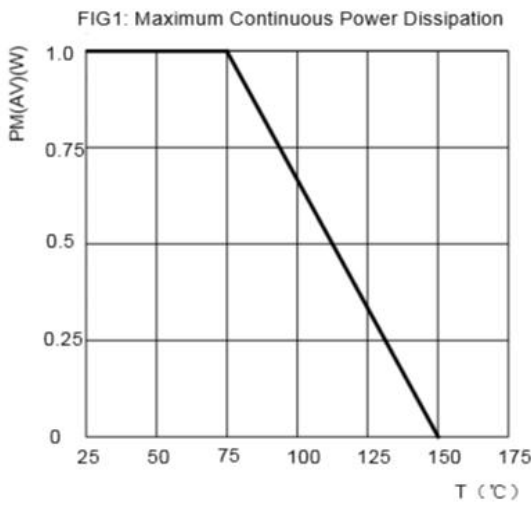
- 1) Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25mm²
 2) Short duration test pulse used to minimize self-heating effect

Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified)

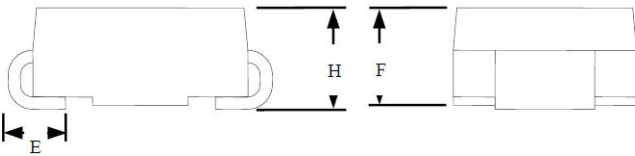
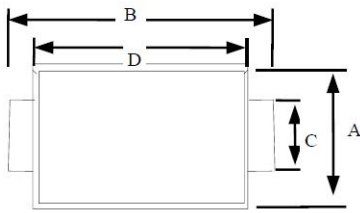
Part Number	Nominal Zener			Maximum Zener Impedance			Max Reverse Leakage Current		
	V _Z @I _{ZT}			I _{ZT} mA	Z _{ZK} @ I _{ZT}	Z _{ZT} @ I _{ZK}	I _R @V _R		
	Nom.V	Min. V	Max. V		Ω	Ω			mA
1SMA4727A	3.0	2.8	3.2	83.0	10.0	400	1.0	150.0	1.0
1SMA4728A	3.3	3.1	3.5	76.0	10.0	400	1.0	100.0	1.0
1SMA4729A	3.6	3.4	3.8	69.0	10.0	400	1.0	100.0	1.0
1SMA4730A	3.9	3.7	4.1	64.0	9.0	400	1.0	50.0	1.0
1SMA4731A	4.3	4.0	4.6	58.0	9.0	400	1.0	20.0	1.0
1SMA4732A	4.7	4.4	5.0	53.0	8.0	500	1.0	10.0	1.0
1SMA4733A	5.1	4.8	5.4	49.0	7.0	550	1.0	10.0	1.0
1SMA4734A	5.6	5.2	6.0	45.0	5.0	600	1.0	10.0	1.0
1SMA4735A	6.2	5.8	6.6	41.0	2.0	700	1.0	10.0	2.0
1SMA4736A	6.8	6.4	7.2	37.0	3.5	700	1.0	5.0	4.0

1SMA4737A	7.5	7.0	7.9	34.0	4.0	700	0.50	5.0	5.0
1SMA4738A	8.2	7.7	8.7	31.0	4.5	700	0.50	5.0	6.0
1SMA4739A	9.1	8.5	9.6	28.0	5.0	700	0.50	0.5	7.0
1SMA4740A	10.0	9.4	10.6	25.0	7.0	700	0.25	0.5	7.6
1SMA4741A	11.0	10.4	11.6	23.0	8.0	700	0.25	0.1	8.4
1SMA4742A	12.0	11.4	12.7	21.0	9.0	700	0.25	0.1	9.1
1SMA4743A	13.0	12.4	14.1	19.0	10.0	700	0.25	0.1	9.9
1SMA4744A	15.0	13.8	15.6	17.0	14.0	700	0.25	0.1	11.4
1SMA4745A	16.0	15.3	17.1	15.5	16.0	700	0.25	0.1	12.2
1SMA4746A	18.0	16.8	19.1	14.0	20.0	750	0.25	0.1	13.7
1SMA4747A	20.0	18.8	21.2	12.5	22.0	750	0.25	0.1	15.2
1SMA4748A	22.0	20.8	23.3	11.5	23.0	750	0.25	0.1	16.7
1SMA4749A	24.0	22.8	25.6	10.5	25.0	750	0.25	0.1	18.2
1SMA4750A	27.0	25.1	28.9	9.5	35.0	750	0.25	0.1	20.6
1SMA4751A	30.0	28.0	32.0	8.5	40.0	1000	0.25	0.1	22.8
1SMA4752A	33.0	31.0	35.0	7.5	45.0	1000	0.25	0.1	25.1
1SMA4753A	36.0	34.0	38.0	7.0	50.0	1000	0.25	0.1	27.4
1SMA4754A	39.0	37.0	41.0	6.5	60.0	1000	0.25	0.1	29.7
1SMA4755A	43.0	40.0	46.0	6.0	70.0	1500	0.25	0.1	32.7
1SMA4756A	47.0	44.0	50.0	5.5	80.0	1500	0.25	0.1	35.8
1SMA4757A	51.0	48.0	54.0	5.0	95.0	1500	0.25	0.1	38.8
1SMA4758A	56.0	53.6	58.8	4.5	110.0	2000	0.25	0.1	42.6
1SMA4759A	62.0	58.9	65.6	4.0	125.0	2000	0.25	0.1	47.1
1SMA4760A	68.0	64.9	71.7	3.7	150.0	2000	0.25	0.1	51.7
1SMA4761A	75.0	71.2	78.8	3.3	175.0	2000	0.25	0.1	56.0
1SMA4762A	82	77.9	87.0	3.0	200.0	3000	0.25	0.1	62.2
1SMA4763A	91	86.0	96.0	2.8	250.0	3000	0.25	0.1	69.2
1SMA4764A	100	95	105	2.5	350.0	3000	0.25	0.1	76.0
1SMA4765A	110	104	116	2.3	450.0	4000	0.25	0.1	83.6
1SMA4766A	120	114	127	2.0	550.0	4500	0.25	0.1	91.2

Typical Performance Characteristics ($T_A=25^\circ\text{C}$ unless otherwise Specified)



Package Mechanical Data(mm)



Dimension	Inches		Millimeters	
	Min	Max	Min	Max
A	0.096	0.114	2.45	2.90
B	0.188	0.222	4.80	5.66
C	0.051	0.066	1.30	1.7.0
D	0.157	0.181	3.99	4.60
E	0.030	0.060	0.76	1.52
H	0.078	0.096	1.98	2.42

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