

SMA4741(A) THRU SMA4764(A)

SURFACE MOUNT ZENER DIODES

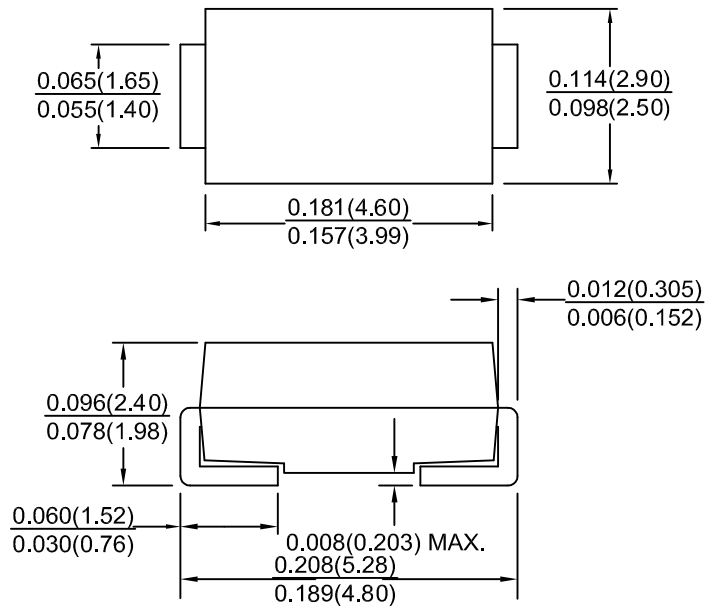
SMA/DO-214AC

FEATURES:

- Standard Zener voltage tolerance is $\pm 510\%$ with "A" suffix
- For surface mounted applications
- 1.0W power dissipation
- Ideally suited for automated assembly processes

MECHANICAL DATA

Case: Molded plastic SMA/DO-214AC
 EPOXY: UL 94v-0 rate flame retardant
 Terminal: Solderable per MIL-STD-750 method 2026
 Polarity: Cathode band
 Mounting Position: Any
 Weight: 0.064 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

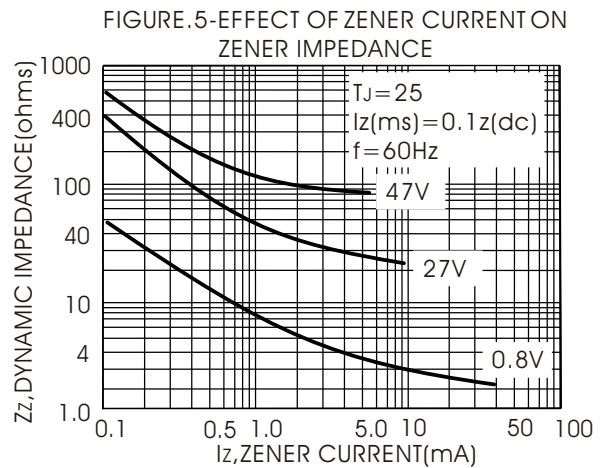
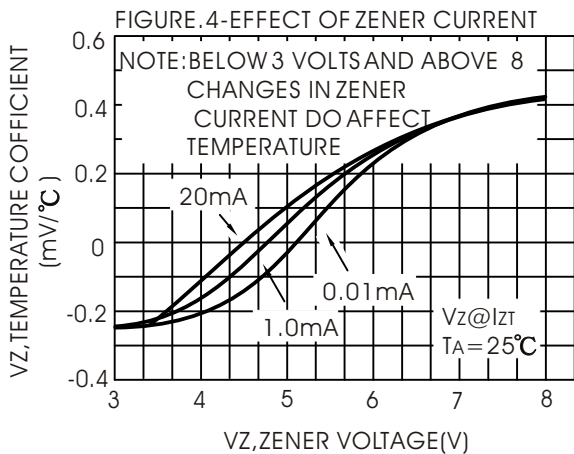
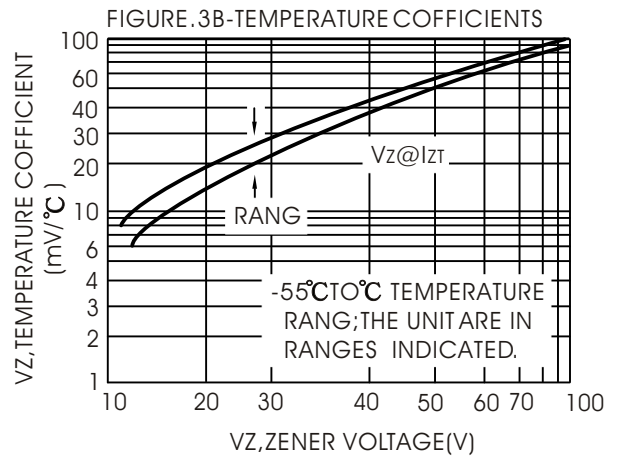
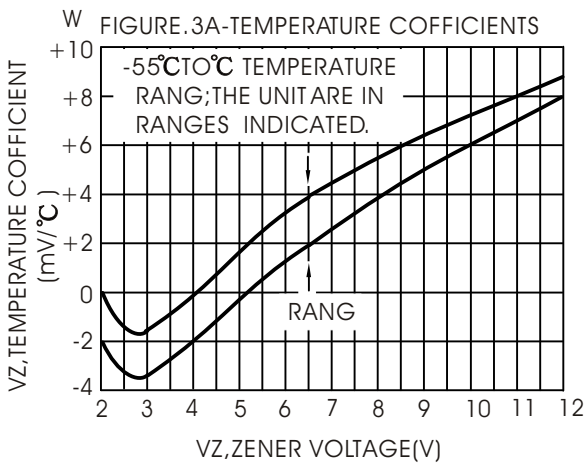
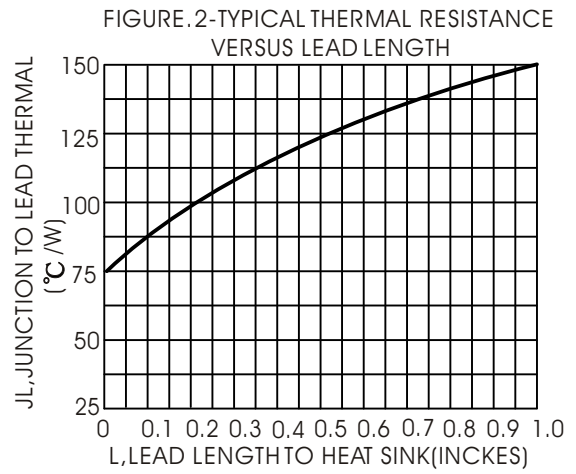
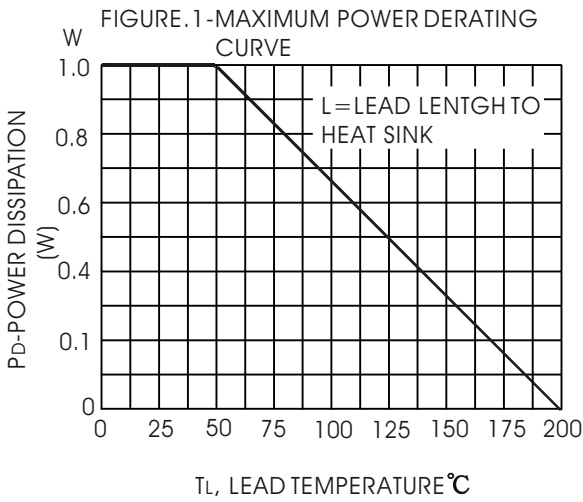
Rating at 25°C ambient temp. unless otherwise specified.
 Single phase, half sine wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20 %.

Characteristic	Symbol	Value	Units
Power Dissipation at Tamb=25 °C (Note1)	Ptot	1.0	W
Half sine-wave superimposed on rated load (Note 2)	IFSM	10	A
Operating junction and storage temperature range	TJ, Tstg	-55 to +150	°C

Note:

- (1) Mounted on 0.5mm x 0.5mm (0.013mm thick) land areas
- (2) Measured on 8.3ms single half-sine wave or equivalent square, duty cycle = 4 pulses per maximum

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Device Type	Nominal Zener Voltage Vz at IzT	Test Current IzT	Maximum Zener Imoedance			Maximum Reverse Leakage Current		Surge Current at Ta=25 °C	Marking
			ZzT at IzT	ZzK at IzK	IzK	IR	Test-Voltage		
	Volts	mA	Ω	Ω	mA	μA	Volts	mA	
SMA4741(A)	11	23	8.0	700	0.25	5	8.4	414	A4741(A)
SMA4742(A)	12	21	9.0	700	0.25	5	9.1	380	A4742(A)
SMA4743(A)	13	19	10	700	0.25	5	9.9	344	A4743(A)
SMA4744(A)	15	17	14	700	0.25	5	11.4	304	A4744(A)
SMA4745(A)	16	15.5	16	700	0.25	5	12.2	285	A4745(A)
SMA4746(A)	18	14	20	750	0.25	5	13.7	250	A4746(A)
SMA4747(A)	20	12.5	22	750	0.25	5	15.2	225	A4747(A)
SMA4748(A)	22	11.5	23	750	0.25	5	16.7	205	A4748(A)
SMA4749(A)	24	10.5	25	750	0.25	5	18.2	190	A4749(A)
SMA4750(A)	27	9.5	35	750	0.25	5	20.6	170	A4750(A)
SMA4751(A)	30	8.5	40	1000	0.25	5	22.8	150	A4751(A)
SMA4752(A)	33	7.5	45	1000	0.25	5	25.1	135	A4752(A)
SMA4753(A)	36	7.0	50	1000	0.25	5	27.4	125	A4753(A)
SMA4754(A)	39	6.5	60	1000	0.25	5	29.7	115	A4754(A)
SMA4755(A)	43	6.0	70	1500	0.25	5	32.7	110	A4755(A)
SMA4756(A)	47	5.5	80	1500	0.25	5	35.8	95	A4756(A)
SMA4757(A)	51	5.0	95	1500	0.25	5	38.8	90	A4757(A)
SMA4758(A)	56	4.5	110	2000	0.25	5	42.6	80	A4758(A)
SMA4759(A)	62	4.0	125	2000	0.25	5	47.1	70	A4759(A)
SMA4760(A)	68	3.7	150	2000	0.25	5	51.7	65	A4760(A)
SMA4761(A)	75	3.3	175	2000	0.25	5	56.0	60	A4761(A)
SMA4762(A)	82	3.0	200	3000	0.25	5	62.2	55	A4762(A)
SMA4763(A)	91	2.8	250	3000	0.25	5	69.2	50	A4763(A)
SMA4764(A)	100	2.5	350	3000	0.25	5	76.0	45	A4764(A)

No Suffix for 5%, Suffix "A" for 10%