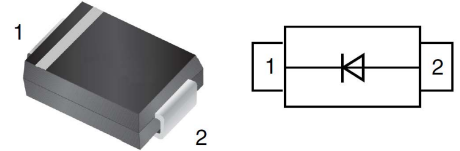


## Surface Mount Silicon Zener Diodes in DO-214AC/SMA

### Key Features

- High precision Zener voltage
- Low dynamic impedance
- Excellent temperature stability
- Low reverse leakage current
- Available in various Zener voltages
- Available in various power ratings



### Mechanical Data

- Case:** DO-214AC/SMA
- Molding Compound Flammability Rating:** V-0
- Terminals:** Leadless

### Absolute Maximum Ratings

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	UNIT
DC power dissipation at $T_L = 50^\circ\text{C}^{(1)}$	$P_D$	1.0	W
Maximum forward voltage at $I_F = 200\text{ mA}$	$V_F$	1.2	V
Junction temperature range	$T_J$	- 55 to + 150	°C
Storage temperature range	$T_{STG}$	- 55 to + 150	°C

#### Note:

(1)  $T_L$  = Lead temperature at 3/8 " (9.5mm) from body

## Typical Characteristics (T<sub>amb</sub> = 25 °C unless otherwise specified)

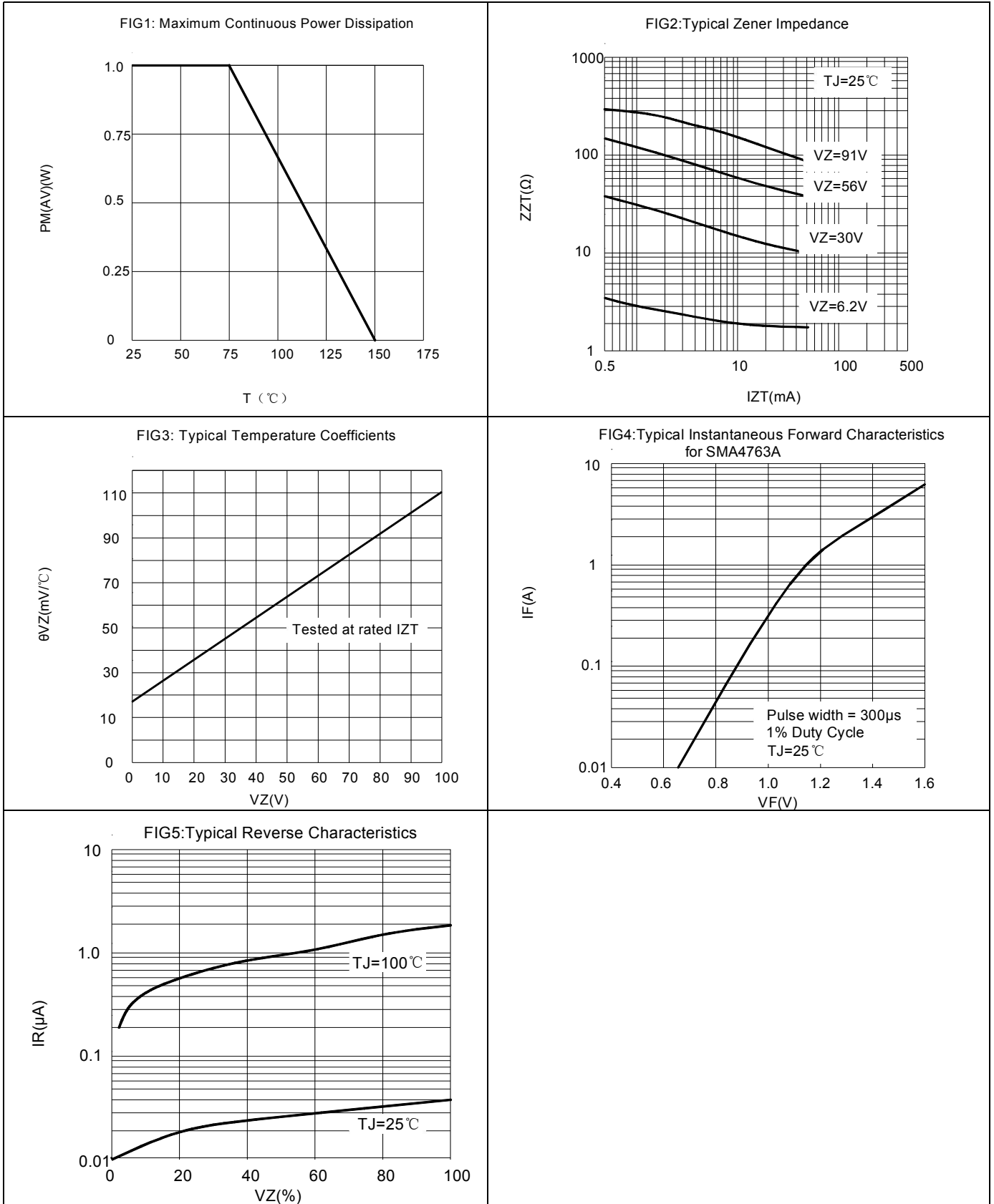
Part Number	Nominal Zener voltage	Test current	Maximum dynamic impedance resistance			Maximum reverse leakage current		Max Surge current
	V <sub>Z</sub> <sup>(1)</sup> at I <sub>ZT</sub>	I <sub>ZT</sub>	Z <sub>ZT</sub> at I <sub>ZT</sub>	Z <sub>ZK</sub> at I <sub>ZK</sub>	I <sub>ZK</sub>	IR	Test voltage V <sub>R</sub>	I <sub>RM</sub> <sup>(2)</sup>
	V	mA	Ω	Ω	mA	μA	V	mA
1SMA4728A	3.3	76	10	400	1	100	1	1380
1SMA4729A	3.6	69	10	400	1	100	1	1260
1SMA4730A	3.9	64	9	400	1	50	1	1190
1SMA4731A	4.3	58	9	400	1	10	1	1070
1SMA4732A	4.7	53	8	500	1	10	1	970
1SMA4733A	5.1	49	7	550	1	10	1	890
1SMA4734A	5.6	45	5	600	1	10	2	810
1SMA4735A	6.2	41	2	700	1	10	3	730
1SMA4736A	6.8	37	3.5	700	1	10	4	660
1SMA4737A	7.5	34	4	700	0.5	10	5	605
1SMA4738A	8.2	31	4.5	700	0.5	10	6	550
1SMA4739A	9.1	28	5	700	0.5	10	7	500
1SMA4740A	10	25	7	700	0.25	10	7.6	454
1SMA4741A	11	23	8	700	0.25	5	8.4	414
1SMA4742A	12	21	9	700	0.25	5	9.1	380
1SMA4743A	13	19	10	700	0.25	5	9.9	344
1SMA4744A	15	17	14	700	0.25	5	11.4	304
1SMA4745A	16	15.5	16	700	0.25	5	12.2	285
1SMA4746A	18	14	20	750	0.25	5	13.7	250
1SMA4747A	20	12.5	22	750	0.25	5	15.2	225
1SMA4748A	22	11.5	23	750	0.25	5	16.7	205
1SMA4749A	24	10.5	25	750	0.25	5	18.2	190
1SMA4750A	27	9.5	35	750	0.25	5	20.6	170
1SMA4751A	30	8.5	40	1000	0.25	5	22.8	150
1SMA4752A	33	7.5	45	1000	0.25	5	25.1	135
1SMA4753A	36	7	50	1000	0.25	5	27.4	125
1SMA4754A	39	6.5	60	1000	0.25	5	29.7	115
1SMA4755A	43	6	70	1500	0.25	5	32.7	110
1SMA4756A	47	5.5	80	1500	0.25	5	35.8	95
1SMA4757A	51	5	95	1500	0.25	5	38.8	90
1SMA4758A	56	4.5	110	2000	0.25	5	42.6	80
1SMA4759A	62	4	125	2000	0.25	5	47.1	70
1SMA4760A	68	3.7	150	2000	0.25	5	51.7	65
1SMA4761A	75	3.3	175	2000	0.25	5	56	60
1SMA4762A	82	3.0	200	3000	0.25	5	62.2	55
1SMA4763A	91	2.8	250	3000	0.25	5	69.2	50
1SMA4764A	100	2.5	350	3000	0.25	5	76.0	45

### Notes :

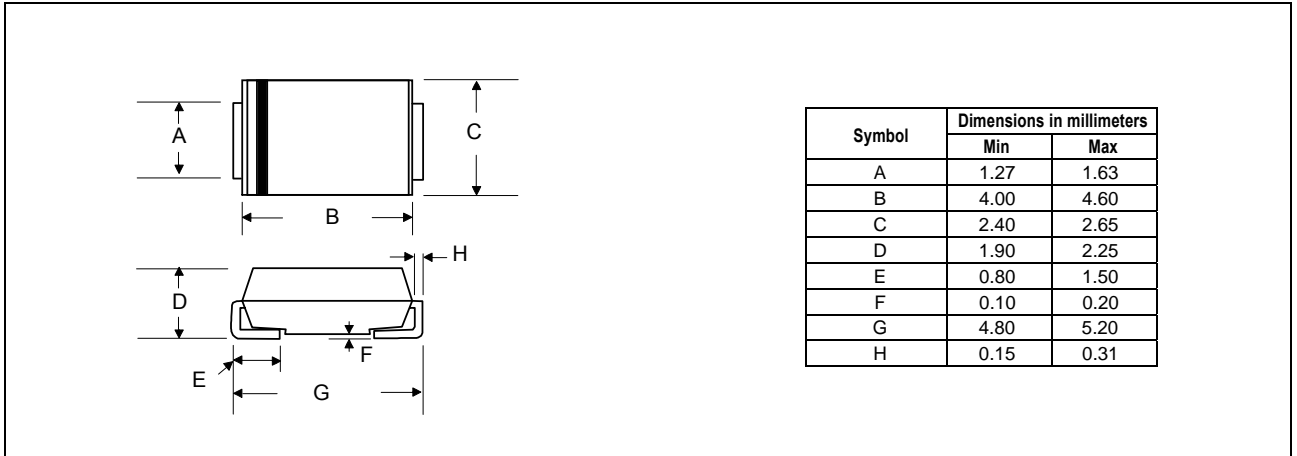
(1) The type number listed have a standard tolerance on the nominal zener voltage of ± 5 %

(2) The reverse surge current is a non-repetitive, 8.3ms pulse width square wave or equivalent sine-wave superimposed on I<sub>ZT</sub> per method.

**Typical Characteristics** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified)



### Package Dimensions



### Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
1SMA47xxA	DO-214AC/SMA	Tape and reel	5000pcs / reel	EIA STD RS-481

### Revision history

Date	Revision	Changes
23-May-2020	1.0	Initial release

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