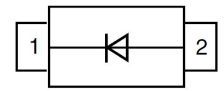
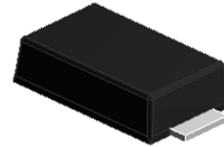


Surface Mount Silicon Zener Diodes in SMAF

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Mechanical Data

- **Case:** Á R Ö Ö Ö Ö Á U T Ö F { [| á ^ á Á | æ æ Š ^ æ á Á
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- **Molding Compound Flammability Rating:**
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Absolute Maximum Ratings

Ratings at 25°ambient temperature unless otherwise specified.

Parameter	Symbol	Value	UNIT
DC power dissipation at T _L = 50 °C ⁽¹⁾	P _D	1.0	W
Maximum forward voltage at I _F = 200 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_{amb} = 25 °C unless otherwise specified)

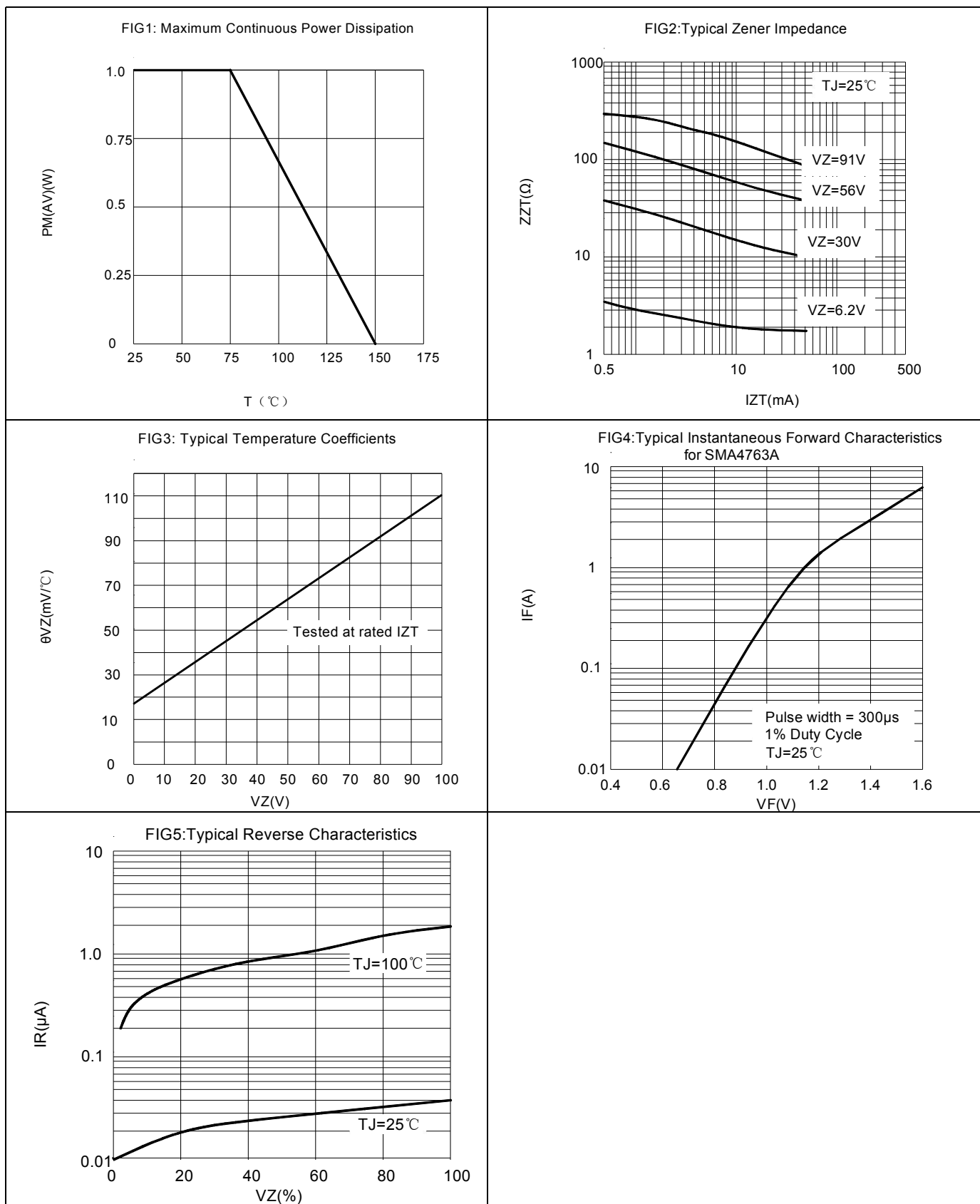
Part Number	Nominal Zener voltage	Test current	Maximum dynamic impedance resistance			Maximum reverse leakage current		Max Surge current
	V _Z ⁽¹⁾ at I _{ZT}	I _{ZT}	Z _{ZT} at I _{ZT}	Z _{ZK} at I _{ZK}	I _{ZK}	IR	Test voltage V _R	I _{RM} ⁽²⁾
	V	mA	Ω	Ω	mA	μA	V	mA
1SMA4728AF	3.3	76	10	400	1	100	1	1380
1SMA4729AF	3.6	69	10	400	1	100	1	1260
1SMA4730AF	3.9	64	9	400	1	50	1	1190
1SMA4731AF	4.3	58	9	400	1	10	1	1070
1SMA4732AF	4.7	53	8	500	1	10	1	970
1SMA4733AF	5.1	49	7	550	1	10	1	890
1SMA4734AF	5.6	45	5	600	1	10	2	810
1SMA4735AF	6.2	41	2	700	1	10	3	730
1SMA4736AF	6.8	37	3.5	700	1	10	4	660
1SMA4737AF	7.5	34	4	700	0.5	10	5	605
1SMA4738AF	8.2	31	4.5	700	0.5	10	6	550
1SMA4739AF	9.1	28	5	700	0.5	10	7	500
1SMA4740AF	10	25	7	700	0.25	10	7.6	454
1SMA4741AF	11	23	8	700	0.25	5	8.4	414
1SMA4742AF	12	21	9	700	0.25	5	9.1	380
1SMA4743AF	13	19	10	700	0.25	5	9.9	344
1SMA4744AF	15	17	14	700	0.25	5	11.4	304
1SMA4745AF	16	15.5	16	700	0.25	5	12.2	285
1SMA4746AF	18	14	20	750	0.25	5	13.7	250
1SMA4747AF	20	12.5	22	750	0.25	5	15.2	225
1SMA4748AF	22	11.5	23	750	0.25	5	16.7	205
1SMA4749AF	24	10.5	25	750	0.25	5	18.2	190
1SMA4750AF	27	9.5	35	750	0.25	5	20.6	170
1SMA4751AF	30	8.5	40	1000	0.25	5	22.8	150
1SMA4752AF	33	7.5	45	1000	0.25	5	25.1	135
1SMA4753AF	36	7	50	1000	0.25	5	27.4	125
1SMA4754AF	39	6.5	60	1000	0.25	5	29.7	115
1SMA4755AF	43	6	70	1500	0.25	5	32.7	110
1SMA4756AF	47	5.5	80	1500	0.25	5	35.8	95
1SMA4757AF	51	5	95	1500	0.25	5	38.8	90
1SMA4758AF	56	4.5	110	2000	0.25	5	42.6	80
1SMA4759AF	62	4	125	2000	0.25	5	47.1	70
1SMA4760AF	68	3.7	150	2000	0.25	5	51.7	65
1SMA4761AF	75	3.3	175	2000	0.25	5	56	60
1SMA4762AF	82	3.0	200	3000	0.25	5	62.2	55
1SMA4763AF	91	2.8	250	3000	0.25	5	69.2	50
1SMA4764AF	100	2.5	350	3000	0.25	5	76.0	45

Notes :

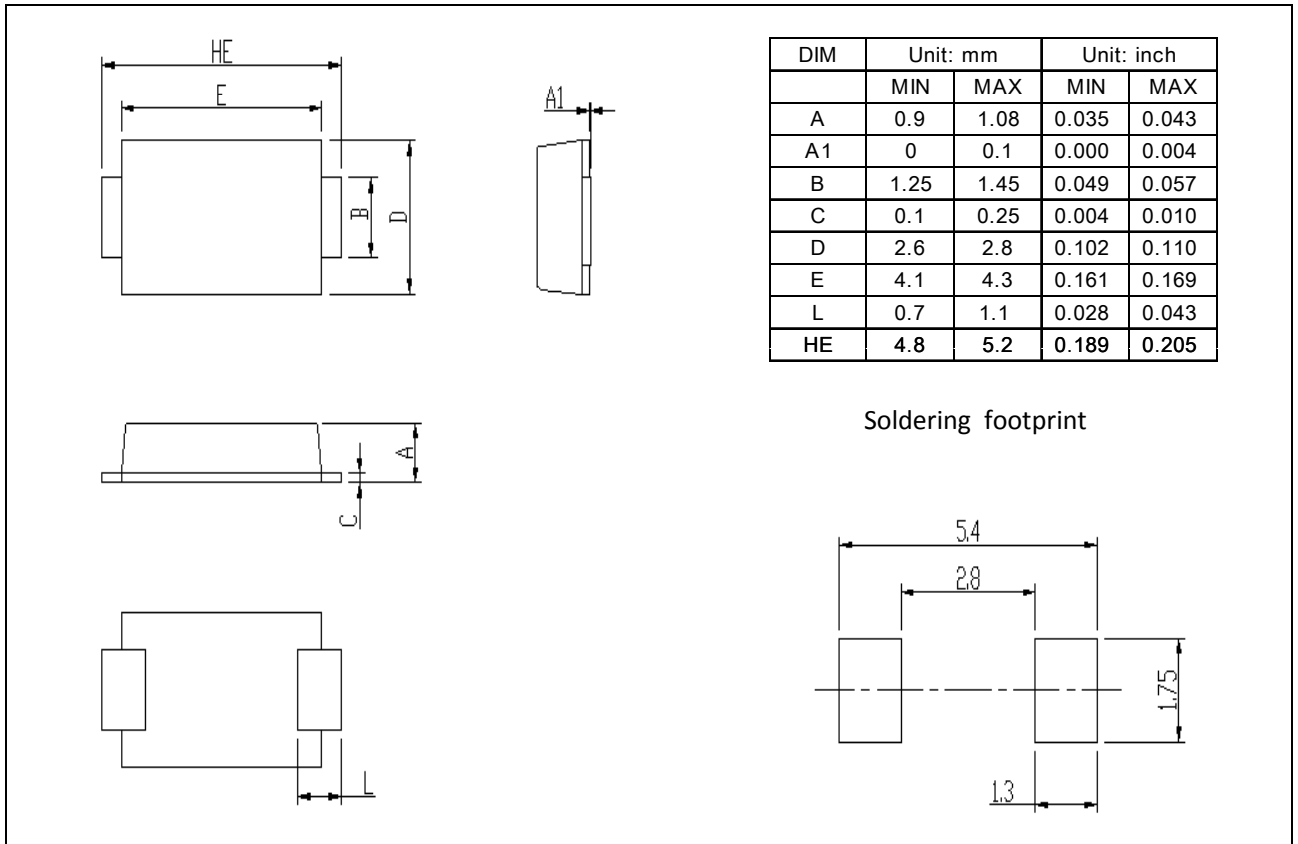
(1) The type number listed have a standard tolerance on the nominal zener voltage of ± 5 %

(2) The reverse surge current is a non-repetitive, 8.3ms pulse width square wave or equivalent sine-wave superimposed on I_{ZT} 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
1SMA47xxAF	SMAF	Tape and reel	3000pcs&5000pcs/reel	EIA STD RS-481

Revision history

Date	Revision	Changes
28-Aug-2017	1.0	Initial release

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