

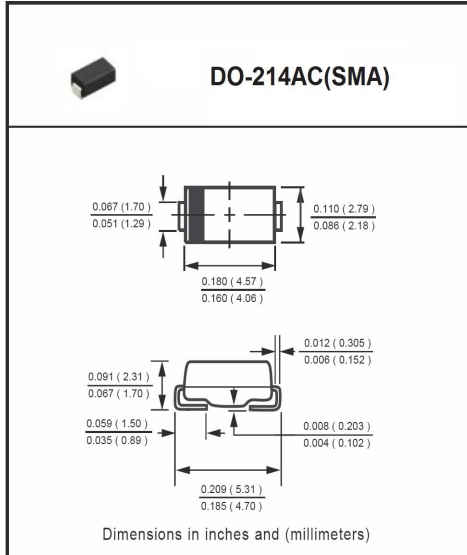


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SMAJ4727 thru SMAJ4764A

表面安装稳压二极管
稳压电压 3.0--100 V
功率 1.0 W

Surface Mount Zener Rectifiers
Reverse Voltage 3.0 to 100 V
Power 1.0 W



Features

- Plastic package has Underwriters Laboratory Flammability Classification 94 V-0
- For surface mounted applications
- Low Zener impedance
- Low regulation factor
- High temperature soldering guaranteed: 260 °C/10 seconds at terminal
- Lead and body according with RoHS standard
- Standard voltage tolerance is 10 %, Suffix A ± 5 %

Mechanical Data

- Case: Molded plastic body
- Terminals: Solder plated
- Polarity: Color band denotes cathode end
- Mounting Position: Any

Absolute Maximum Ratings $T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified

Parameter	Test Conditions	Symbol	Value	Unit
Power dissipation	$T_L=75\text{ }^{\circ}\text{C}$	P_{tot}	1	W

Maximum Thermal Resistance $T_{amb} = 25\text{ }^{\circ}\text{C}$, unless otherwise specified

Parameter	Test Conditions	Symbol	Value	Unit
Junction temperature		T_j	150	$^{\circ}\text{C}$
Storage temperature range		T_{stg}	-65...+150	$^{\circ}\text{C}$



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Electrical Characteristics (TA = 25°C unless otherwise noted, VF = 1.5 V Max. @ IF = 200 mA for all types)

Type	Device Marking Code	Nominal Zener Voltage V _Z ⁽¹⁾ at I _{ZT}	Test Current I _{ZT}	Maximum Dynamic Impedance			Maximum DC Reverse Leakage Current		Maximum Surge Current I _{RM} ⁽²⁾
				Z _{ZT} at I _{ZT}	Z _{ZK} at I _{ZK}	I _{ZK} ⁽¹⁾	I _R	V _R	
				Ω	Ω	mA	μA	V	
SMAJ4727	3V0	3.0	83.0	10.0	400	1.0	150	1.0	1380
SMAJ4728	3V3	3.3	76.0	10.0	400	1.0	100	1.0	1380
SMAJ4729	3V6	3.6	69.0	10.0	400	1.0	100	1.0	1260
SMAJ4730	3V9	3.9	64.0	9.0	400	1.0	50	1.0	1190
SMAJ4731	4V3	4.3	58.0	9.0	400	1.0	10	1.0	1070
SMAJ4732	4V7	4.7	53.0	8.0	500	1.0	10	1.0	970
SMAJ4733	5V1	5.1	49.0	7.0	550	1.0	10	1.0	890
SMAJ4734	5V6	5.6	45.0	5.0	600	1.0	10	2.0	810
SMAJ4735	6V2	6.2	41.0	2.0	700	1.0	10	3.0	730
SMAJ4736	6V8	6.8	37.0	3.5	700	1.0	10	4.0	660
SMAJ4737	7V5	7.5	34.0	4.0	700	0.5	10	5.0	605
SMAJ4738	8V2	8.2	31.0	4.5	700	0.5	10	6.0	550
SMAJ4739	9V1	9.1	28.0	5.0	700	0.5	10	7.0	500
SMAJ4740	10	10	25.0	7.0	700	0.25	10	7.6	454
SMAJ4741	11	11	23.0	8.0	700	0.25	5	8.4	414
SMAJ4742	12	12	21.0	9.0	700	0.25	5	9.1	380
SMAJ4743	13	13	19.0	10.0	700	0.25	5	9.9	344
SMAJ4744	15	15	17.0	14.0	700	0.25	5	11.4	305
SMAJ4745	16	16	15.5	16.0	700	0.25	5	12.2	285
SMAJ4746	18	18	14.0	20.0	750	0.25	5	13.7	250
SMAJ4747	20	20	12.5	22.0	750	0.25	5	15.2	225
SMAJ4748	22	22	11.5	23.0	750	0.25	5	16.7	205
SMAJ4749	24	24	10.5	25.0	750	0.25	5	18.2	190
SMAJ4750	27	27	9.5	35.0	750	0.25	5	20.6	170
SMAJ4751	30	30	8.5	40.0	1000	0.25	5	22.8	150
SMAJ4752	33	33	7.5	45.0	1000	0.25	5	25.1	135
SMAJ4753	36	36	7.0	50.0	1000	0.25	5	27.4	125
SMAJ4754	39	39	6.5	60.0	1000	0.25	5	29.7	115
SMAJ4755	43	43	6.0	70.0	1500	0.25	5	32.7	110
SMAJ4756	47	47	5.5	80.0	1500	0.25	5	35.8	95
SMAJ4757	51	51	5.0	95.0	1500	0.25	5	38.8	90
SMAJ4758	56	56	4.5	110	2000	0.25	5	42.6	80
SMAJ4759	62	62	4.0	125	2000	0.25	5	47.1	70
SMAJ4760	68	68	3.7	150	2000	0.25	5	51.7	65
SMAJ4761	75	75	3.3	175	2000	0.25	5	56.0	60
SMAJ4762	82	82	3.0	200	3000	0.25	5	62.2	55
SMAJ4763	91	91	2.8	250	3000	0.25	5	69.2	50
SMAJ4764	100	100	2.5	350	3000	0.25	5	76.0	45

Note: (1) Standard voltage tolerance is 10%, Suffix A ±5%

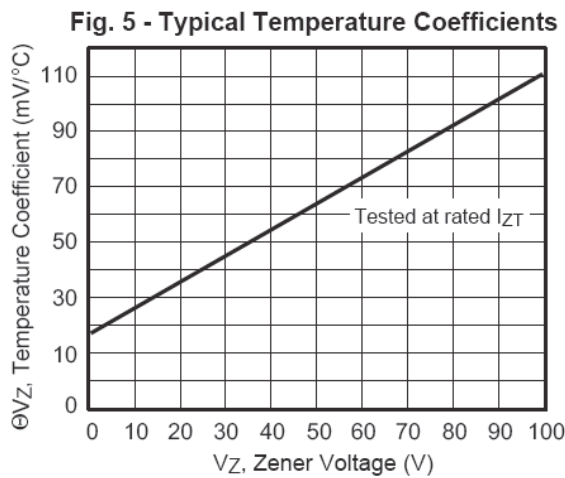
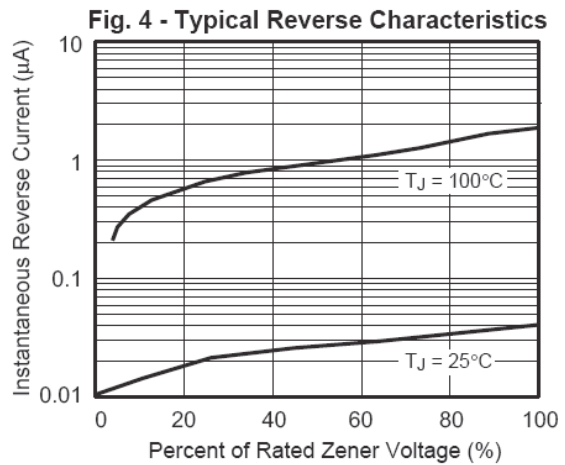
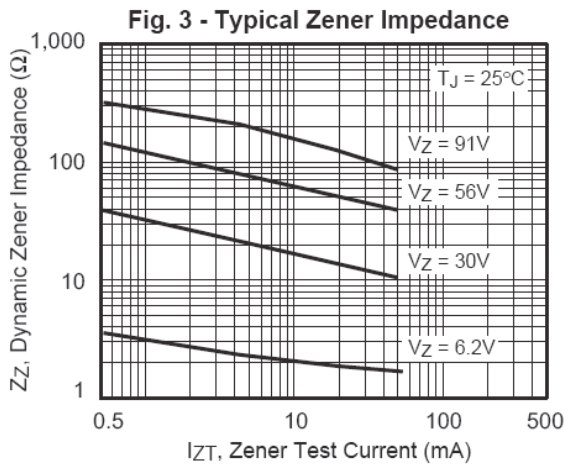
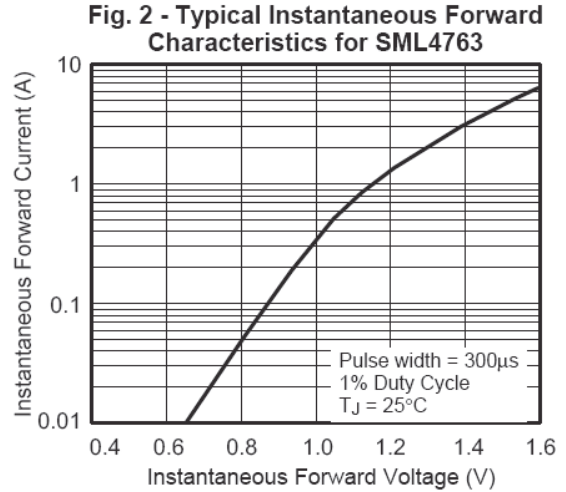
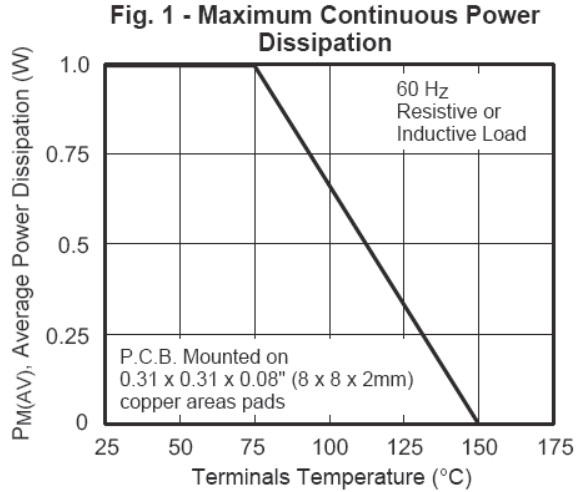
(2) Surge current is a non-repetitive, 8.3ms pulse width square wave or equivalent sine-wave superimposed on I_{ZT} per JEDEC Method

(3) Maximum steady state power dissipation is 1.0 watt at T_r=75°C

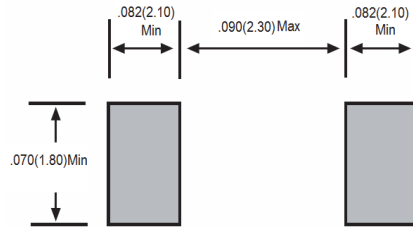


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Ratings and Characteristic Curves ($T_A = 25^\circ\text{C}$ unless otherwise noted)



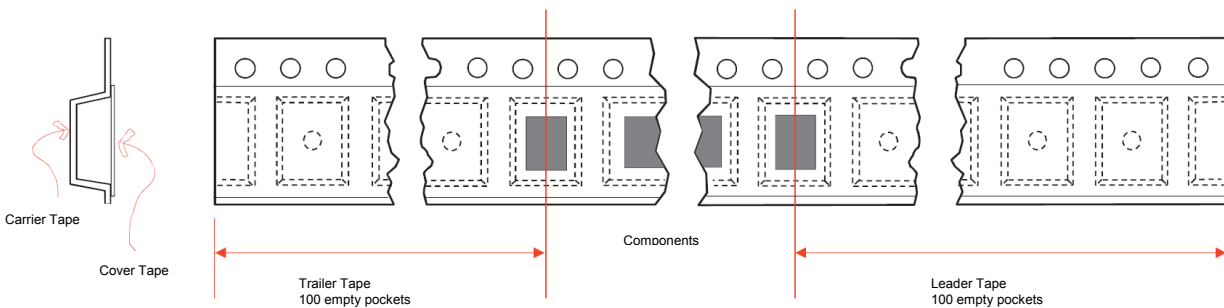
Mounting Pad Layout



Packing

Part number	Component Package	Quantity	Packaging Option
SMAJ4728-SMAJ4764	DO-214AC SMA	5000	Tape & Reel – 12mm/13" tape

DO-214AC(SMA) Tape Leader and Trailer Configuration



Tape and Reel Specification

