

SMAJ4733A~SMAJ4764A

ZENER DIODES

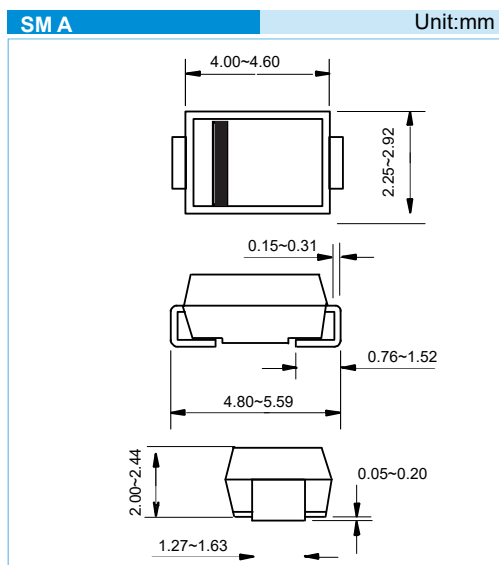
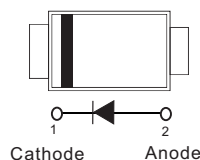
VOLTAGE 5.1 to 100 Volt **POWER** 1.0 Watt

FEATURES

- For surface mounted applications
- Low Zener Impedance
- Low Profile Package
- Low regulation factor
- Lead free in compliance with EU RoHS

MECHANICAL DATA

- Case Material: Molded Plastic.
- UL Flammability Classification Rating 94V-0



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Characteristic	Symbol	Value	Unit
Forward Voltage @ $I_F = 100\text{mA}$	V_F	1.2	V
Power Dissipation(Note 1)	P_d	1.0	W
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	100	°C/W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_{stg}	-65~+150	°C

NOTES :

1. 1 in square copper pad, FR-4 board.

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ELECTRICAL CHARACTERISTICS @25°C

Type	Device Marking	Nominal Zener Voltage		Maximum Zener Impedance			Maximum Reverse Leakage Current	
		$V_Z @ I_{ZT}$	I_{ZT}	$Z_{ZT} @ I_{ZT}$	$Z_{ZK} @ I_{ZK}$	I_{ZK}	$I_R @ V_R$	V_R
		(V)	(mA)	(Ω)	(Ω)	(mA)	(μA)	(V)
SMAJ4733A	733A	5.1	49.0	7.0	550	1.0	10	1.0
SMAJ4734A	734A	5.6	45.0	5.0	600	1.0	10	2.0
SMAJ4735A	735A	6.2	41.0	2.0	700	1.0	10	3.0
SMAJ4736A	736A	6.8	37.0	3.5	700	1.0	10	4.0
SMAJ4737A	737A	7.5	34.0	4.0	700	0.5	10	5.0
SMAJ4738A	738A	8.2	31.0	4.5	700	0.5	10	6.0
SMAJ4739A	739A	9.1	28.0	5.0	700	0.5	10	7.0
SMAJ4740A	740A	10	25.0	7.0	700	0.25	10	7.6
SMAJ4741A	741A	11	23.0	8.0	700	0.25	5.0	8.4
SMAJ4742A	742A	12	21.0	9.0	700	0.25	5.0	9.1
SMAJ4743A	743A	13	19.0	10	700	0.25	5.0	9.9
SMAJ4744A	744A	15	17.0	14	700	0.25	5.0	11.4
SMAJ4745A	745A	16	15.5	16	700	0.25	5.0	12.2
SMAJ4746A	746A	18	14.0	20	750	0.25	5.0	13.7
SMAJ4747A	747A	20	12.5	22	750	0.25	5.0	15.2
SMAJ4748A	748A	22	11.5	23	750	0.25	5.0	16.7
SMAJ4749A	749A	24	10.5	25	750	0.25	5.0	18.2
SMAJ4750A	750A	27	9.5	35	750	0.25	5.0	20.6
SMAJ4751A	751A	30	8.5	40	1000	0.25	5.0	22.8
SMAJ4752A	752A	33	7.5	45	1000	0.25	5.0	25.1
SMAJ4753A	753A	36	7.0	50	1000	0.25	5.0	27.4
SMAJ4754A	754A	39	6.5	60	1000	0.25	5.0	29.7
SMAJ4755A	755A	43	6.0	70	1500	0.25	5.0	32.7
SMAJ4756A	756A	47	5.5	80	1500	0.25	5.0	35.8
SMAJ4757A	757A	51	5.0	95	1500	0.25	5.0	38.8
SMAJ4758A	758A	56	4.5	110	2000	0.25	5.0	42.6
SMAJ4759A	759A	62	4.0	125	2000	0.25	5.0	47.1
SMAJ4760A	760A	68	3.7	150	2000	0.25	5.0	51.7
SMAJ4761A	761A	75	3.3	175	2000	0.25	5.0	56.0
SMAJ4762A	762A	82	3.0	200	3000	0.25	5.0	62.2
SMAJ4763A	763A	91	2.8	250	3000	0.25	5.0	69.2
SMAJ4764A	764A	100	2.5	350	3000	0.25	5.0	76.0

Note: The type number listed have a standard tolerance on the nominal zener voltage of $\pm 5\%$.

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RATING AND CHARACTERISTIC CURVES

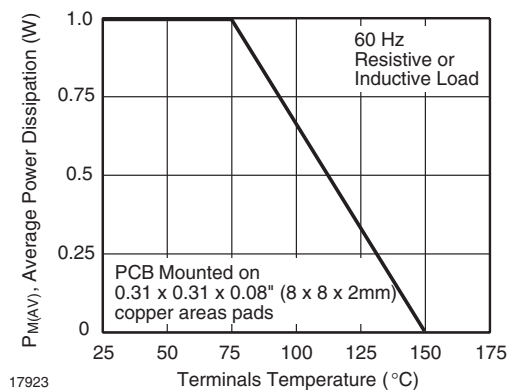


Fig. 1 - Maximum Continuous Power Dissipation

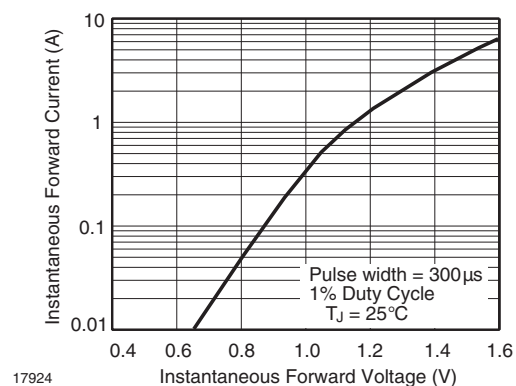


Fig. 4 - Typical Instantaneous Forward Characteristics for SML4763

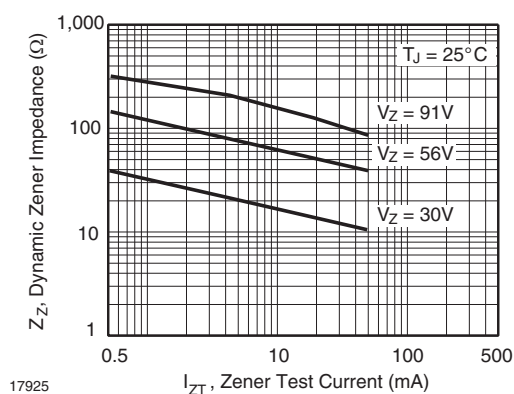


Fig. 2 - Typical Zener Impedance

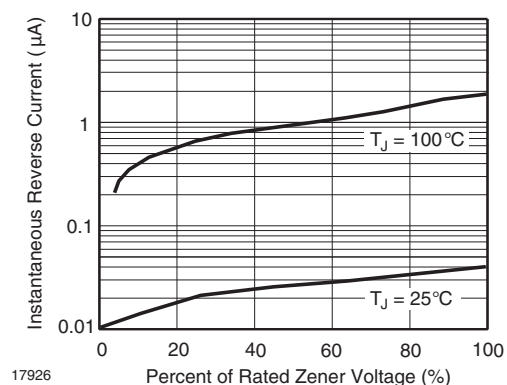


Fig. 5 - Typical Reverse Characteristics

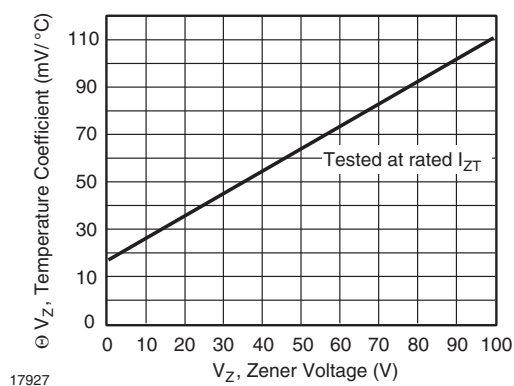


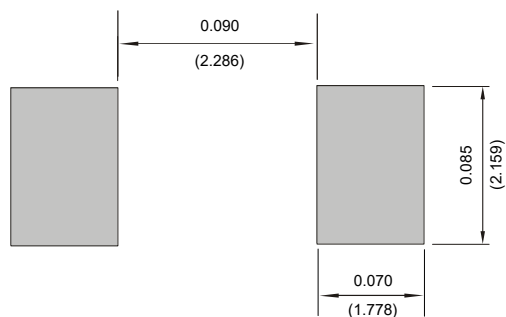
Fig. 3 - Typical Temperature Coefficients

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MOUNTING PAD LAYOUT

SMA / DO-214AC

Unit:Inch(mm)



ORDER INFORMATION

• Packing information

Part Number	Case	Reel Size	QUANTITY
SMAJ4733A~SMAJ4764A	SMA	13 Inch	5000