imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

Features

- Halogen free available upon request by adding suffix "-HF"
- 1.0W Power Dissipation
- High Surge Capability
- Ideally Suited for Automatic Assembly
- Standard Vz Tolerance is +/- 5%
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

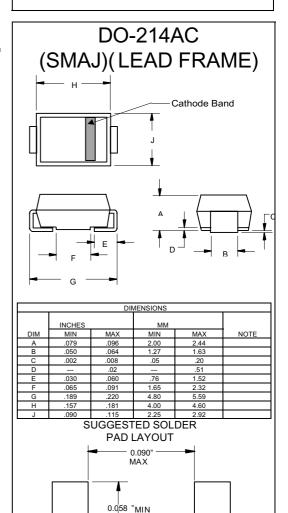
Maximum Ratings

- Storage Temperature Range(Tstg): -65℃ to +150℃
- Operating Temperature Range(T_j): -65°C to +150°C

	Symbol	Value	Units
Zener Current	Izм	Pd/Vz	mA
Power Dissipation @T _A =50°C	P _{tot}	1000	mW
Forward Voltage@I _F = 200mA	VF	1.2	V
Junction to Terminal	R _{thJT}	30	°C/W
Thermal resistance	R _{thJA}	125	°C/W

SMAZ5V1 THRU SMAZ39

1 Watt Zener Diode 5.1V - 39V Volts



Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7.

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0.070" MIN



Electrical Characteristics @ 25°C Unless Otherwise Specified

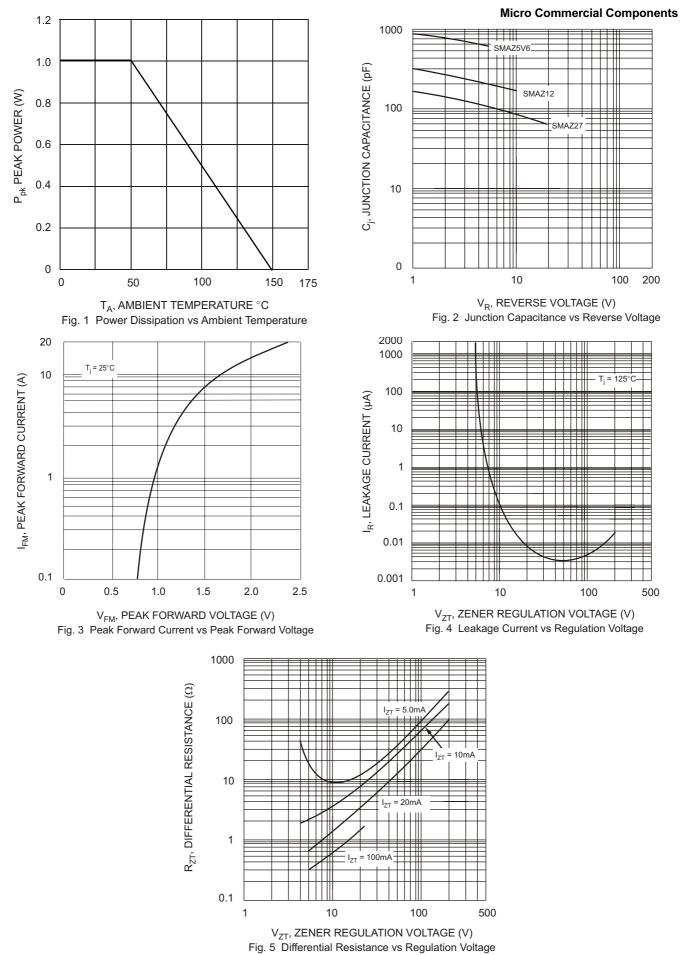
	Zer	ner Volta	ige	Maximur	n Zener	Maximum	Zener	Reve	erse	I _{ZM} Max	
Part Number		Vz		Imped	ance	Impeda	ance	Curi	rent		Marking
	Voltages		Z _{ZT} (OHMS)		Z _{ZK} (OHMS)		$I_R(Max) @ V_R$		(Note 1)		
	Nom	Min	Max	I _{ZT} (mA)	Max	I _{ZK} (mA)	Max	uA	V	mA	
SMAZ5V1	5.10	4.84	5.40	100	5.0	1.0	500	2.5	1.0	196	Z5V1
SMAZ5V6	5.60	5.32	5.88	100	2.0	2.0	250	5.0	2.0	179	Z5V6
SMAZ6V2	6.20	5.89	6.51	100	2.0	2.0	200	5.0	3.0	161	Z6V2
SMAZ6V8	6.80	6.46	7.14	100	2.0	1.0	200	5.0	4.0	147	Z6V8
SMAZ7V5	7.50	7.13	7.88	100	2.0	1.0	450	5.0	5.0	133	Z7V5
SMAZ8V2	8.20	7.79	8.61	100	2.0	1.0	200	5.0	6.0	122	Z8V2
SMAZ9V1	9.10	8.65	9.56	50	4.0	1.0	200	5.0	7.0	110	Z9V1
SMAZ10	10.00	9.50	10.50	50	4.0	1.0	200	1.0	7.6	100	Z10
SMAZ12	12.00	1 <u>1.40</u>	12.60	50	7.0	1.0	150	1.0	9.1	83	Z12
SMAZ15	15.00	14.25	15.75	50	10.0	1.0	150	1.0	11.4	67	Z15
SMAZ16	16.00	15.20	16.80	25	15.0	1.0	150	0.5	12.2	63	Z16
SMAZ18	18.00	17.10	18.90	25	15.0	1.0	150	0.5	13.7	56	Z18
SMAZ20	20.00	19.00	21.00	25	15.0	1.0	180	0.5	15.2	50	Z20
SMAZ22	22.00	20.90	23.10	25	15.0	1.0	180	0.5	16.7	45	Z22
SMAZ24	24.00	22.80	25.20	25	15.0	1.0	180	0.5	18.2	42	Z24
SMAZ27	27.00	25.65	28.35	25	15.0	1.0	200	0.5	20.5	37	Z27
SMAZ30	30.00	28.50	31.50	25	15.0	1.0	250	0.5	22.8	33	Z30
SMAZ33	33.00	31.35	34.65	25	15.0	1.0	300	0.5	25.1	30	Z33
SMAZ36	36.00	34.20	37.80	10	40.0	1.0	350	0.5	27.4	28	Z36
SMAZ39	39.00	37.05	40.95	10	40.0	1.0	450	0.5	29.6	26	Z39

Notes1.Device mounted on FR-4 PCB, 1 inch x 0.85 inch x 0.062 inch

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SMAZ5V1 - SMAZ39





Revision: B

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Ordering Information :

Device	Packing			
Part Number-TP	Tape&Reel: 7.5Kpcs/Reel			

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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