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

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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"
- Low Zener Impedance
- Low Regulation Factor
- Vz tolerance: ±5%
- For Surface Mount Applications
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)

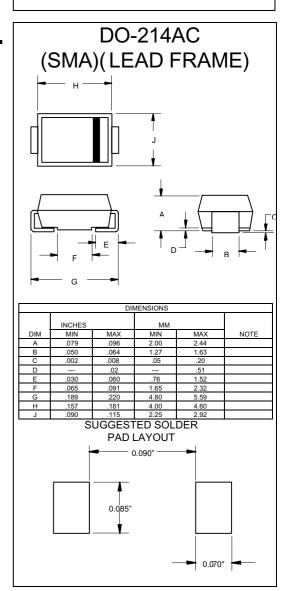
Maximum Ratings@25 $^\circ C$ Unless Otherwise Specified

Parameters	Test Conditions	Symbol	Value	Unit	
Power Dissipation	Tamb≤50℃	Pd	1	W	
Z-Current		lz	Pd/Vz	mA	
Operating		ті	-65~+150	ĉ	
Junction Temperature		Tj	-05**+150	C	
Storage Temperature		Tstg	-65~+150	°C	
Thermal Resistence	Note:2	RΘja	100	K/W	
	NOLE.2	RΘjL	75	r√ VV	
Max. Forward Voltage Drop	IF=100mA	Vf	1.2	V	

Note: 1. High Temperature Solder Exemptions Applied, see EU Directive Annex 7a 2. FR-4 Board, MCC's Suggested Solder Pad.

SMAJ4733A THRU SMAJ4764A

1 Watt Zener Diode 5.1 to 100 Volts





ELECTRICAL CHARACTERISTICS @25°C

MCC PART NUMBER	ZENER VOLTAGE Vz	TEST CURRENT Izt	MAXIMUM DYNAMIC IMPEDANCE Zzt @Izt	MAXIMUM REVERSE CURRENT IR	VR	KNEE IMPEDANCE Zzk	KNEE CURRENT Izĸ	DEVICE MARKING
	VOLTS	mA	OHMS	μA	VOLTS	OHMS	mA	
SMAJ4733A	5.1	49	7	10	1	550	1	733A
SMAJ4734A	5.6	45	5	10	2	600	1	734A
SMAJ4735A	6.2	41	2	10	3	700	1	735A
SMAJ4736A	6.8	37	3.5	10	4	700	1	736A
SMAJ4737A	7.5	34	4	10	5	700	0.5	737A
SMAJ4738A	8.2	31	4.5	10	6	700	0.5	738A
SMAJ4739A	9.1	28	5	10	7	700	0.5	739A
SMAJ4740A	10	25	7	10	7.6	700	0.25	740A
SMAJ4741A	11	23	8	5	8.4	700	0.25	741A
SMAJ4742A	12	21	9	5	9.1	700	0.25	742A
SMAJ4743A	13	19	10	5	9.9	700	0.25	743A
SMAJ4744A	15	17	14	5	11.4	700	0.25	744A
SMAJ4745A	16	15.5	16	5	12.2	700	0.25	745A
SMAJ4746A	18	14	20	5	13.7	750	0.25	746A
SMAJ4747A	20	12.5	22	5	15.2	750	0.25	747A
SMAJ4748A	22	11.5	23	5	16.7	750	0.25	748A
SMAJ4749A	24	10.5	25	5	18.2	750	0.25	749A
SMAJ4750A	27	9.5	35	5	20.6	750	0.25	750A
SMAJ4751A	30	8.5	40	5	22.8	1000	0.25	751A
SMAJ4752A	33	7.5	45	5	25.1	1000	0.25	752A
SMAJ4753A	36	7	50	5	27.4	1000	0.25	753A
SMAJ4754A	39	6.5	60	5	29.7	1000	0.25	754A
SMAJ4755A	43	6	70	5	32.7	1500	0.25	755A
SMAJ4756A	47	5.5	80	5	35.8	1500	0.25	756A
SMAJ4757A	51	5	95	5	38.8	1500	0.25	757A
SMAJ4758A	56	4.5	110	5	42.6	2000	0.25	758A
SMAJ4759A	62	4	125	5	47.1	2000	0.25	759A
SMAJ4760A	68	3.7	150	5	51.7	2000	0.25	760A
SMAJ4761A	75	3.3	175	5	56	2000	0.25	761A
SMAJ4762A	82	3	200	5	62.2	3000	0.25	762A
SMAJ4763A	91	2.8	250	5	69.2	3000	0.25	763A
SMAJ4764A	100	2.5	350	5	76	3000	0.25	764A



Symbol	Parameter	
Vz	Reverse zener voltage @ I _{ZT}	
I _{ZT}	Reverse current	
Z _{ZT}	Maximum zener impedance @ I_{ZT}	
I _{zk}	Reverse current	
Ζ _{zκ}	Maximum zener impedance @ I _{zĸ}	
I _R	Reverse leakage current @ V_R	
V _R	Breakdown voltage	
I _F	Forward current	
V _F	Forward voltage @ I _F	

Characteristics (T_j =25 °C unless otherwise specified)

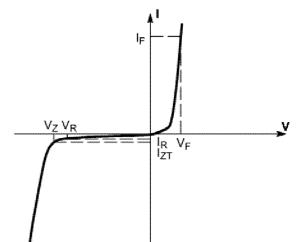
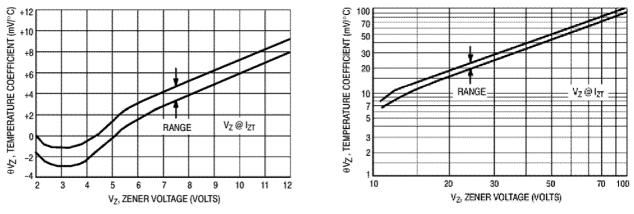


Figure 1. Zener voltage regulator





(-55 $^\circ\!\!{\rm C}$ to +150 $^\circ\!\!{\rm C}$ temperature range; 90% of the units are in the ranges indicated)

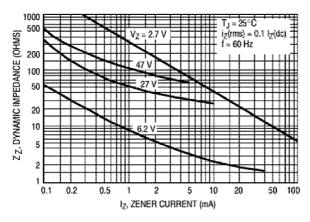
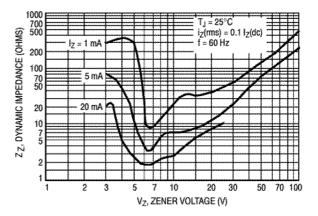
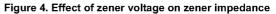


Figure 3. Effect of zener current on zener impedance







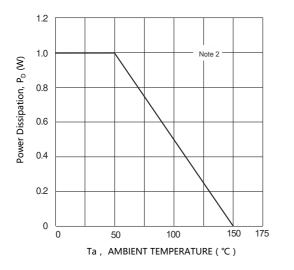


Fig. 5 STEADY STATE POWER DERATING



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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