

Features

- V_Z – Tolerance: $\pm 5\%$
- For Surface Mount Applications
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)

Maximum Ratings

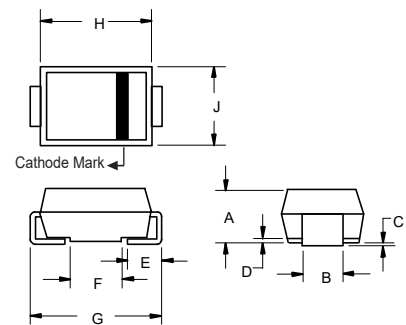
- Operating Junction Temperature Range: -65°C to $+150^{\circ}\text{C}$
- Storage Temperature Range: -65°C to $+150^{\circ}\text{C}$
- Thermal Resistance : 100°C/W Junction to Ambient
- Thermal Resistance : 75°C/W Junction to Lead

Parameter	Symbol	Rating	Conditions
Power Dissipation	P_D	1.0W	$T_A \leq 50^{\circ}\text{C}$
Zener Current	I_Z	P_d/V_z mA	
Maximum Forward Voltage	V_F	1.2V	$I_F = 100\text{mA}$

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

1.0 Watt Surface Mount Silicon Zener Diodes 5.1V to 100V

SMA (DO-214AC) LEAD FRAME



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.079	0.096	2.00	2.44	
B	0.050	0.064	1.27	1.63	
C	0.002	0.008	0.051	0.203	
D	---	0.020	---	0.51	
E	0.030	0.060	0.76	1.52	
F	0.065	0.091	1.65	2.32	
G	0.189	0.220	4.80	5.59	
H	0.157	0.181	4.00	4.60	
J	0.090	0.115	2.25	2.92	

SUGGESTED SOLDER PAD LAYOUT



Electrical Characteristics @ 25°C Unless Otherwise Specified

MCC Part Number	Zener Voltage	Test Current	Maximum Dynamic Impedance	Knee Current	Knee Impedance	Maximum Reverse Current	Reverse Voltage	Marking Code
	V_Z	I_{ZT}	$Z_{ZT} @ I_{ZT}$	I_{ZK}	Z_{ZK}	I_R	V_R	
	V	mA	Ω	mA	Ω	μA	V	
SMAJ4733A	5.1	49	7	1	550	10	1	733A
SMAJ4734A	5.6	45	5	1	600	10	2	734A
SMAJ4735A	6.2	41	2	1	700	10	3	735A
SMAJ4736A	6.8	37	3.5	1	700	10	4	736A
SMAJ4737A	7.5	34	4	0.5	700	10	5	737A
SMAJ4738A	8.2	31	4.5	0.5	700	10	6	738A
SMAJ4739A	9.1	28	5	0.5	700	10	7	739A
SMAJ4740A	10	25	7	0.25	700	10	7.6	740A
SMAJ4741A	11	23	8	0.25	700	5	8.4	741A
SMAJ4742A	12	21	9	0.25	700	5	9.1	742A
SMAJ4743A	13	19	10	0.25	700	5	9.9	743A
SMAJ4744A	15	17	14	0.25	700	5	11.4	744A
SMAJ4745A	16	15.5	16	0.25	700	5	12.2	745A
SMAJ4746A	18	14	20	0.25	750	5	13.7	746A
SMAJ4747A	20	12.5	22	0.25	750	5	15.2	747A
SMAJ4748A	22	11.5	23	0.25	750	5	16.7	748A
SMAJ4749A	24	10.5	25	0.25	750	5	18.2	749A
SMAJ4750A	27	9.5	35	0.25	750	5	20.6	750A
SMAJ4751A	30	8.5	40	0.25	1000	5	22.8	751A
SMAJ4752A	33	7.5	45	0.25	1000	5	25.1	752A
SMAJ4753A	36	7	50	0.25	1000	5	27.4	753A
SMAJ4754A	39	6.5	60	0.25	1000	5	29.7	754A
SMAJ4755A	43	6	70	0.25	1500	5	32.7	755A
SMAJ4756A	47	5.5	80	0.25	1500	5	35.8	756A
SMAJ4757A	51	5	95	0.25	1500	5	38.8	757A
SMAJ4758A	56	4.5	110	0.25	2000	5	42.6	758A
SMAJ4759A	62	4	125	0.25	2000	5	47.1	759A
SMAJ4760A	68	3.7	150	0.25	2000	5	51.7	760A
SMAJ4761A	75	3.3	175	0.25	2000	5	56	761A
SMAJ4762A	82	3	200	0.25	3000	5	62.2	762A
SMAJ4763A	91	2.8	250	0.25	3000	5	69.2	763A
SMAJ4764A	100	2.5	350	0.25	3000	5	76	764A

Curve Characteristics

Fig. 1 - Power Derating Curve

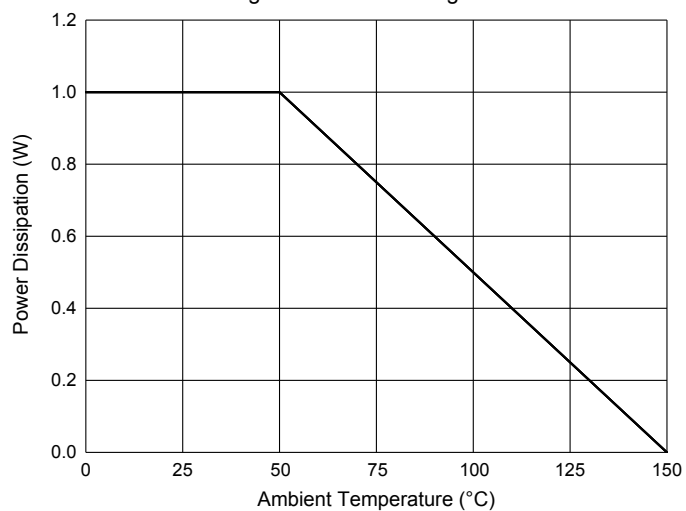
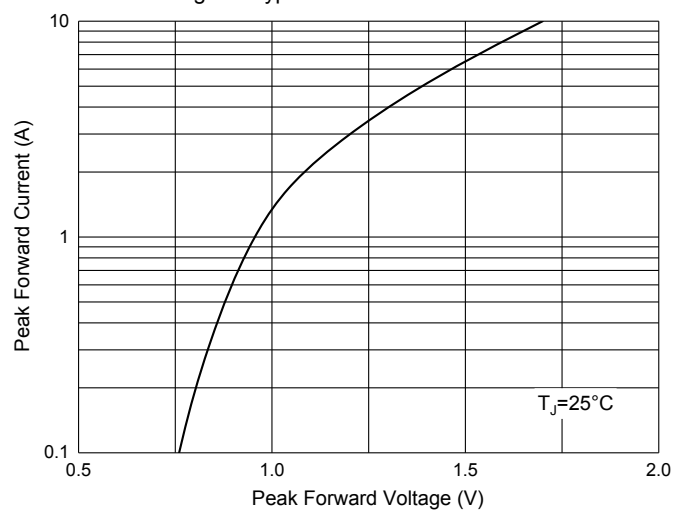


Fig. 2 - Typical Forward Characteristics



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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