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**TECHNICAL DATA  
DATA SHEET D0042 REV. A**

## SILICON ZENER DIE

### Features:

- Zener Voltage 3.3V - 47V
- Withstand Large Surge Stresses

### Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Nominal Power Dissipation	$P_D$	Derate above 25 °C	3	W
Forward Voltage	$V_F$	@ $I_F=200\text{mA}$ , Pulse, $T_J = 25\text{ °C}$	1.1	V
Maximum DC Zener Current	$I_{ZM}$	-	55	mA
Operating Temperature Range	$T_J$	-	-40 to +165	°C
Storage Temperature Range	$T_{stg}$	-	-65 to +150	°C

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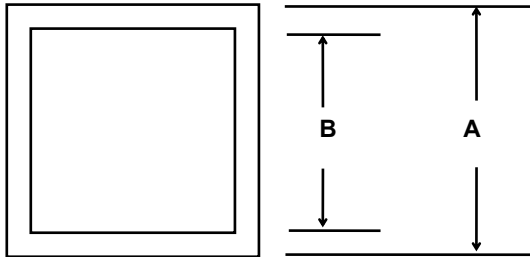
**Electrical Characteristics @ T<sub>J</sub> =25 °C:**

Device	Zener voltage		Zener Impedance			Leakage Current	
	Nom. VZ ①	@ I <sub>ZT</sub>	Max.	Max.	@ I <sub>ZK</sub>	Max. I <sub>R</sub> @ V <sub>R</sub>	
			Z <sub>KT</sub> @ I <sub>ZT</sub>	Z <sub>KK</sub> @ I <sub>ZK</sub>			
	Volts	mA	Ω	Ω	mA	uA	Volts
SZ373V3	3.3	113.6	10	500	1	100	1
SZ373V6	3.6	104.2	9	500	1	75	1
SZ373V9	3.9	96.1	7.5	500	1	25	1
SZ374V3	4.3	87.2	6	500	1	5	1
SZ374V7	4.7	79.8	5	500	1	5	1.5
SZ375V1	5.1	73.5	4	350	1	5	2
SZ375V6	5.6	66.9	2	250	1	5	3
SZ376V2	6.2	60.5	2	200	1	5	4
SZ376V8	6.8	55.1	2.5	200	1	5	5.2
SZ377V5	7.5	50	3	400	0.5	5	6
SZ378V2	8.2	45.7	3.5	400	0.5	5	6.5
SZ379V1	9.1	41.2	4	500	0.5	5	7
SZ3710	10	37.5	4.5	500	0.25	5	8
SZ3711	11	34.1	5.5	550	0.25	1	8.4
SZ3712	12	31.2	6.5	550	0.25	1	9.1
SZ3713	13	28.8	7	550	0.25	1	9.9
SZ3714	14	26.7	8	600	0.25	1	10.5
SZ3715	15	25	9	600	0.25	1	11.4
SZ3716	16	23.4	10	650	0.25	1	12.2
SZ3717	17	22	11	650	0.25	1	13
SZ3718	18	20.8	12	650	0.25	1	13.7
SZ3719	19	19.7	13	650	0.25	1	14.4
SZ3720	20	18.7	14	650	0.25	1	15.2
SZ3722	22	17	17.5	650	0.25	1	16.7
SZ3724	24	15.6	19	700	0.25	1	18.2
SZ3725	25	14.9	20	700	0.25	1	19.2
SZ3727	27	13.9	23	700	0.25	1	20.6
SZ3728	28	13.4	24	750	0.25	1	21.4
SZ3730	30	12.5	26	750	0.25	1	22.8
SZ3733	33	11.4	33	800	0.25	1	25.1
SZ3736	36	10.4	38	850	0.25	1	27.4
SZ3739	39	9.6	45	900	0.25	1	29.7
SZ3743	43	8.7	53	950	0.25	1	32.7
SZ3747	47	8	67	1000	0.25	1	35.8

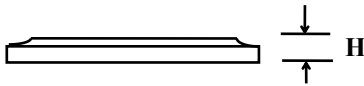
Note: ①Vz Tolerance is ±5%

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**Mechanical Dimensions: In mil (mm)**



Bottom side metalization Ag-5kA minimum  
 Top side metalization AlSiCu -25kA minimum  
 Bottom side is cathode, top side is anode  
 Dimension H =  $8.2 \pm 1(0.21 \pm 0.025)$  (It can be customized according to customer requirements)



A	B
$37 \pm 2(0.94 \pm 0.05)$	$30 \pm 2(0.76 \pm 0.05)$

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