

# 穩壓二極管 Zener Diodes

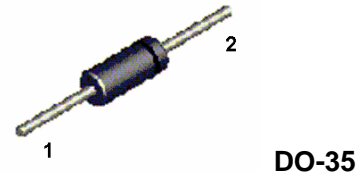
## Zener Diodes 穩壓二極管

## FHZ2V4~75V

### DESCRIPTION & FEATURES 概述及特點

Wide working voltage range: 2.0 to 39V 寬電壓範圍

General regulation functions. 普通電壓調整應用



### PIN ASSIGNMENT 引腳說明

PIN NAME 管腳符號	PIN NUMBER 引腳序號	FUNCTION 功能
	LL-34/DO-35	
A	1	Anode
C	2	Cathode

### ABSOLUTE MAXIMUM RATINGS (T<sub>A</sub>=25°C)

Parameter	Test Conditions	Type	Symbol	Value	Unit
Power dissipation 耗散功率	R <sub>thJA</sub> <300K/W, T <sub>a</sub> =25°C		PV	500	mW
Z-current 穩壓電流			I <sub>Z</sub>	PV/V <sub>Z</sub>	mA
Junction temperature 結溫			T <sub>j</sub>	175	°C
Storage temperature range 儲存溫度			T <sub>stg</sub>	-65~175	°C

### Maximum Thermal Resistance

Parameter	Test Conditions	Symbol	Value	Unit
Junction ambient 熱阻	on PC board 50mmx50mmx1.6mm	R <sub>thJA</sub>	500	K/W

### ELECTRICAL CHARACTERISTICS (T<sub>A</sub>=25°C)

Parameter	Test Conditions	Type	Symbol	Min	Typ	Max	Unit
Forward voltage 正向電壓	I <sub>F</sub> =200mA		V <sub>F</sub>			1.1	V

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FHZ2V4~75V

Type	VZnom	IZT for rzjT	IZT for rzjT	rzjk at IZK	rzjk at IZK	IR at VR	IR at VR	TKVZ
	V	mA	Ohm	Ohm	mA	μA	V	%/K
FHZ2V4	2.4	5	< 30	< 1200	0.25	< 100	1.0	< -0.085
FHZ2V5	2.5	5	< 30	< 1250	0.25	< 100	1.0	< -0.085
FHZ2V7	2.7	5	< 30	< 1300	0.25	< 75	1.0	< -0.080
FHZ2V8	2.8	5	< 30	< 1400	0.25	< 75	1.0	< -0.080
FHZ3V0	3.0	5	< 29	< 1600	0.25	< 50	1.0	< -0.075
FHZ3V3	3.3	5	< 28	< 1600	0.25	< 25	1.0	< -0.070
FHZ3V6	3.6	5	< 24	< 1700	0.25	< 15	1.0	< -0.065
FHZ3V9	3.9	5	< 23	< 1900	0.25	< 10	1.0	< -0.060
FHZ4V3	4.3	5	< 22	< 2000	0.25	< 5	1.0	< ± 0.055
FHZ4V7	4.7	5	< 19	< 1900	0.25	< 5	2.0	< ± 0.030
FHZ5V1	5.1	5	< 17	< 1600	0.25	< 5	2.0	< ± 0.030
FHZ5V6	5.6	5	< 11	< 1600	0.25	< 5	3.0	< +0.038
FHZ6V0	6.0	5	< 7	< 1600	0.25	< 5	3.5	< +0.038
FHZ6V2	6.2	5	< 7	< 1000	0.25	< 5	4.0	< +0.045
FHZ6V8	6.8	5	< 5	< 750	0.25	< 3	5.0	< +0.050
FHZ7V5	7.5	5	< 6	< 500	0.25	< 3	6.0	< +0.058
FHZ8V2	8.2	5	< 8	< 500	0.25	< 3	6.5	< +0.062
FHZ8V7	8.7	5	< 8	< 600	0.25	< 3	6.5	< +0.065
FHZ9V1	9.1	5	< 10	< 600	0.25	< 3	7.0	< +0.068
FHZ10V	10	5	< 17	< 600	0.25	< 3	8.0	< +0.075
FHZ11V	11	5	< 22	< 600	0.25	< 2	8.4	< +0.076
FHZ12V	12	5	< 30	< 600	0.25	< 1	9.1	< +0.077
FHZ13V	13	5	< 13	< 600	0.25	< 0.5	9.9	< +0.079
FHZ14V	14	5	< 15	< 600	0.25	< 0.1	10	< +0.082
FHZ15V	15	5	< 16	< 600	0.25	< 0.1	11	< +0.082
FHZ16V	16	5	< 17	< 600	0.25	< 0.1	12	< +0.083
FHZ17V	17	5	< 19	< 600	0.25	< 0.1	13	< +0.084
FHZ18V	18	5	< 21	< 600	0.25	< 0.1	14	< +0.085
FHZ19V	19	5	< 23	< 600	0.25	< 0.1	14	< +0.086
FHZ20V	20	5	< 25	< 600	0.25	< 0.1	15	< +0.086
FHZ22V	22	5	< 29	< 600	0.25	< 0.1	17	< +0.087
FHZ24V	24	5	< 33	< 600	0.25	< 0.1	18	< +0.088
FHZ25V	25	5	< 35	< 600	0.25	< 0.1	19	< +0.089
FHZ27V	27	5	< 41	< 600	0.25	< 0.1	21	< +0.090
FHZ28V	28	5	< 44	< 600	0.25	< 0.1	21	< +0.091
FHZ30V	30	5	< 49	< 600	0.25	< 0.1	23	< +0.091
FHZ33V	33	5	< 58	< 700	0.25	< 0.1	25	< +0.092
FHZ36V	36	5	< 70	< 700	0.25	< 0.1	27	< +0.093
FHZ39V	39	5	< 80	< 800	0.25	< 0.1	30	< +0.094
FHZ43V	43	5	< 93	< 900	0.25	< 0.1	33	< +0.095
FHZ47V	47	5	< 105	< 1000	0.25	< 0.1	36	< +0.095
FHZ51V	51	5	< 125	< 1100	0.25	< 0.1	39	< +0.096
FHZ56V	56	5	< 150	< 1300	0.25	< 0.1	43	< +0.096
FHZ60V	60	5	< 170	< 1400	0.25	< 0.1	46	< +0.097
FHZ62V	62	5	< 185	< 1400	0.25	< 0.1	47	< +0.097
FHZ68V	68	5	< 230	< 1600	0.25	< 0.1	52	< +0.097
FHZ75V	75	5	< 270	< 1700	0.25	< 0.1	56	< +0.098