

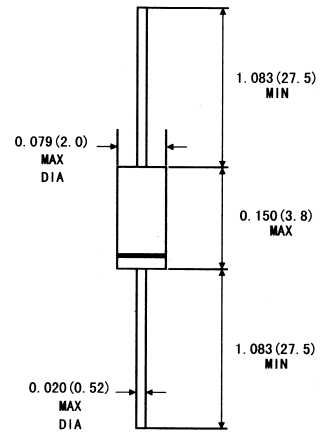
### FEATURES

- . The zener voltage are gaded accrding to the intermational E24 standard. Over voltage tolerance and higher zener voltage on request

### MECHANICAL DATA

- . **Case:** DO-35 glass case
- . **Polarity:** Color band denotes cathode end
- . **weight:** Approx. 0.13 gram

#### DO-35



Dimensions in inches and (millimeters)

### ABSOLUTE MAXIMUM RATINGS(LIMITING VALUES)(TA=25°C)

	Symbols	Value	Units
Zener current see table "Characteristics"			
Power dissipation at TA=25°C	P <sub>tot</sub>	500 <sup>1)</sup>	mW
Junction temperature	T <sub>J</sub>	175	°C
Storage temperature range	T <sub>STG</sub>	-55 to +175	°C

1)Valid provided that a distance of 8mm from case are kept at ambient temperature

### ELECTRCAL CHARACTERISTICS(TA=25°C)

	Symbols	Min	Typ	Max	Units
Thermal resistance junction to ambient	R <sub>θ</sub>			300 <sup>1)</sup>	K/W

1) Valid provided that a distance at 8mm from case are kept at ambient temperature

ZPD2.7 THRU ZPD51 SILICON PLANAR ZENER DIODES

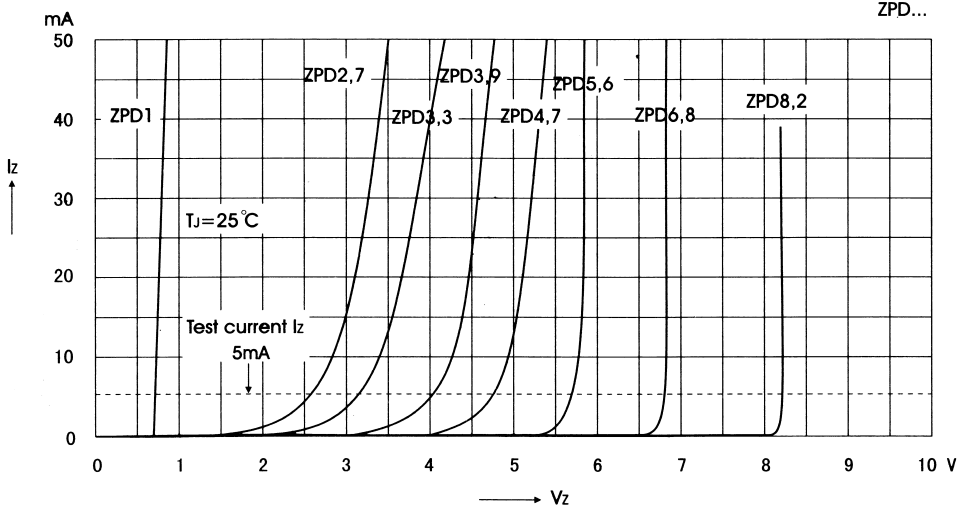
Type	Zener Voltage range 1)		Dynamic resistance			Temp. Coeff. of Zener Volt at I <sub>z</sub> =5mA	Reverse Voltage at I <sub>r</sub> =100nA Min. V <sub>R</sub> (V)	Admissible Zener Current of		
	V <sub>znom</sub>	I <sub>ZT</sub> for V <sub>ZT</sub> 2)		r <sub>zjt</sub> and r <sub>zjk</sub> at I <sub>ZK</sub>				T <sub>amb</sub> =45 °C	T <sub>amb</sub> =25 °C	
	v	mA	V	Ω	Ω	mA	α <sub>vz</sub> 10 <sup>-4</sup> /K	I <sub>zmA</sub>	I <sub>zmA</sub>	
ZPD2.7	2.7	5	2.5.2.9	<83	<50	1	-9...-4		135	160
ZPD3	3.0		2.8.3.2	<95	<500		-9...-3		117	140
ZPD3.3	3.3		3.1.3.5				-8...-3		109	130
ZPD3.6	3.6		3.4.3.8				-8...-3		101	120
ZPD3.9	3.9		3.7.4.1				-7...-3		92	110
ZPD4.3	4.3		4.0.4.6				-6...-1		85	100
ZPD4.7	4.7		4.4.5.0				<78		76	90
ZPD5.1	5.1		4.8.5.4				<60	<480	-3...+4	0.8
ZPD5.6	5.6		5.2.6.0	<40	<400		-2...+6	1	59	70
ZPD6.2	6.2		5.8.6.6	<10	<200		-1...+7	2	54	64
ZPD6.8	6.8		6.4.7.2	<8	<150		+2...+7	3	49	58
ZPD7.5	7.5		7.0.7.9	<7	<50		+3...+7	5	44	53
ZPD8.2	8.2		7.7.8.7	<7			+4...+7	6	40	47
ZPD9.1	9.1		8.5.9.6	<10			+5...+8	7	36	43
ZPD10	10		9.4..10.6	<15	<70		+5...+8	7.5	33	40
ZPD11	11		10.4..11.6	<20	<70		+5...+9	8.5	30	36
ZPD12	12		11.4..12.7	<20	<90		+6...+9	9	28	32
ZPD13	13		12.4..14.1	<25	<110		+7...+9	10	25	29
ZPD15	15		13.8..15.6	<30	<110		+7...+9	11	23	27
ZPD16	16		15.3..17.1	<40	<170		+8...+9.5	12	20	24
ZPD18	18	16.8..19.1	<50	<170	+8...+9.5	13	18	21		
ZPD20	20	18.8.21.2	<50	<220	+8...+10	15	17	20		
ZPD22	22	20.8.23.3	<55		+8...+10	16	16	18		
ZPD24	24	22.8.25.6	<80		+8...+10	18	13	16		
ZPD27	27	25.1.28.9		+8...+10	20	12	14			
ZPD30	30	28.32		+8...+10	22.5	10	13			
ZPD33	33	31.35		+8...+10	25	9	12			
ZPD36	36	34.38	<90	+8...+10	27	9	11			
ZPD39	39	37.41	<90	<300	+10...+12	29	8	10		
ZPD43	43	40.46	<100	<700	+10...+12	32	7	9.2		
ZPD47	47	44.50	<100	<750	+10...+12	35	6	8.5		
ZPD51	51	48.54	<100	<750	+10...+12	38	6	7.8		

NOTE 1)TESTED WITH PULSE T<sub>p</sub>=20mS

2) Valid provided that electrodes are kept ambient temperature at a distance of 8mm from case

**ZPD2.7 THRU ZPD51 SILICON PLANAR POWER ZENER DIODES**

BREAKDOWN CHARACTERISTICS AT  $T_J=CONSTANT$ (PULSED)



BREAKDOWN CHARACTERISTICS AT  $T_J=CONSTANT$ (PULSED)

