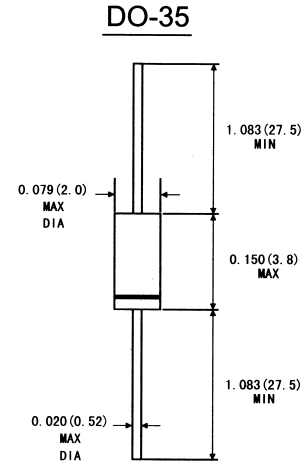


**FEATURES**

. The zener voltage are gaded accrding to the international 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



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

**ZDP2.7 THRU ZPD51 SILICON PLANAR ZENER DIODES**

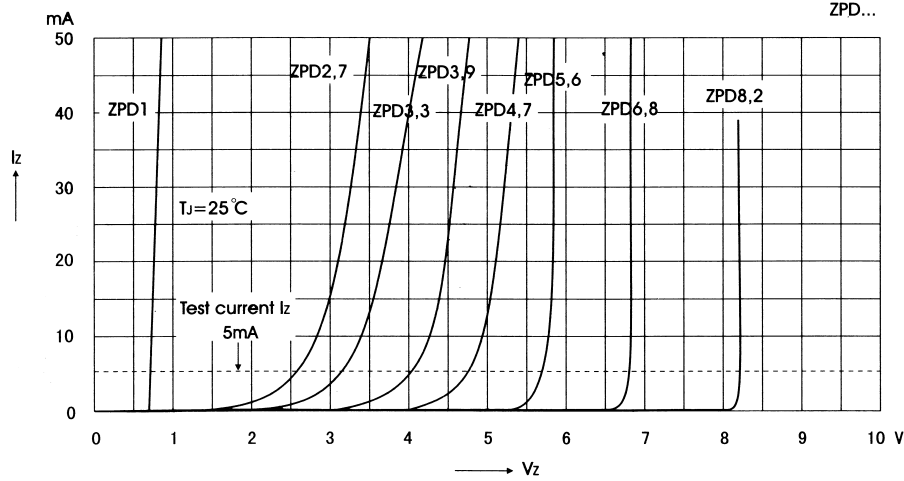
Type	Zener Voltage range 1)		Dynamic resistance			Temp. Coeff. of Zener Volt at I <sub>Z</sub> =5mA	Reverse Voltage at I=100nA Min.	Admissible Zener Current of				
	V <sub>Znom</sub>	I <sub>ZT</sub> for V <sub>ZT</sub> 2)		r <sub>ZT</sub> and r <sub>ZK</sub> at I <sub>ZK</sub>				T <sub>amb</sub> = 45 °C	T <sub>amb</sub> = 25 °C			
		v	mA	V	Ω			Ω	mA	α <sub>VZ</sub> 10 <sup>-4</sup> /K	V <sub>R</sub> (V)	I <sub>ZmA</sub>
ZPD2.7	2.7	5	2.5.2.9	<83	<50	1	-9...-4	0.8	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	67	80
ZPD5.6	5.6		5.2.6.0				<40		<400	-2..+6	59	70
ZPD6.2	6.2		5.8.6.6				<10		<200	-1..+7	54	64
ZPD6.8	6.8		6.4.7.2				<8		<150	+2..+7	49	58
ZPD7.5	7.5		7.0.7.9	<7	<50		+3..+7		44	53		
ZPD8.2	8.2		7.7.8.7	<7			+4..+7		40	47		
ZPD9.1	9.1		8.5.9.6	<10	+5..+8		36		43			
ZPD10	10		9.4.10.6	<15	<70		+5..+8		33	40		
ZPD11	11		10.4.11.6	<20	<70		+5..+9		30	36		
ZPD12	12		11.4.12.7	<20	<90		+6..+9		28	32		
ZPD13	13		12.4.14.1	<25	<110		+7..+9		25	29		
ZPD15	15		13.8.15.6	<30	<110		+7..+9		23	27		
ZPD16	16		15.3.17.1	<40	<170		+8..+9.5		20	24		
ZPD18	18	16.8.19.1	<50	<170	+8..+9.5	18	21					
ZPD20	20	18.8.21.2	<50	<220	+8..+10	17	20					
ZPD22	22	20.8.23.3	<55		+8..+10	16	16	18				
ZPD24	24	22.8.25.6	<80	<250	+8..+10	13	16					
ZPD27	27	25.1.28.9			+8..+10	12	14					
ZPD30	30	28.32			+8..+10	10	13					
ZPD33	33	31.35			+8..+10	9	12					
ZPD36	36	34.38	<90	+8..+10	9	11						
ZPD39	39	37.41	<90	<300	+10..+12	8	10					
ZPD43	43	40.46	<100	<700	+10..+12	7	9.2					
ZPD47	47	44.50	<100	<750	+10..+12	6	8.5					
ZPD51	51	48.54	<100	<750	+10..+12	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)**

