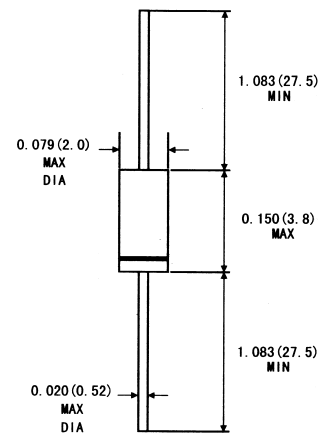


FEATURES

- . 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

DO-35

Dimensions in inches and (millimeters)

ABSOLUTE MAXIMUM RATINGS(LIMITING VALUES)(TA=25℃)

	Symbols	Value	Units
Zener current see table "Characteristics"			
Power dissipation at TA=25℃	P _{tot}	500 ¹⁾	mW
Junction temperature	T _J	175	℃
Storage temperature range	T _{STG}	-55 to +175	℃
1)Valid provided that a distance of 8mm from case are kept at ambient temperature			

ELECTRCAL CHARACTERISTICS(TA=25℃)

	Symbols	Min	Typ	Max	Units
Thermal resistance junction to ambient	R _{θj}			300 ¹⁾	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

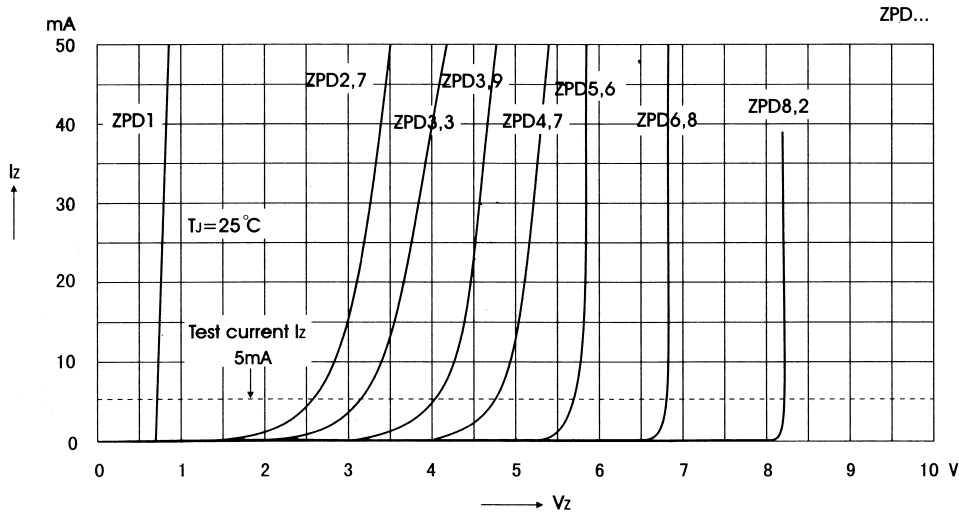
Type	Zener Voltage range 1)			Dynamic resistance			Temp. Coeff. of Zener Volt at I _Z =5mA α _{VZ} 10 ⁻⁴ /K	Reverse Voltage at I=100nA Min. V _R (V)	Admissible Zener		
	V _{Znom}	I _{ZT} for V _{ZT} 2)		r _{ZT} and r _{ZK} at I _{ZK}					Current of		
		mA	V	Ω	Ω	mA			T _{amb} = 45 °C	T _{amb} = 25 °C	
	v								I _{ZmA}	I _{ZmA}	
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			-5...+2		76	90	
ZPD5.1	5.1		4.8.5.4	<60	<480		-3...+4	0.8	67	80	
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	<250		+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_p=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 $T_J = \text{CONSTANT}$ (PULSED)



BREAKDOWN CHARACTERISTICS AT $T_J = \text{CONSTANT}$ (PULSED)

