

ZENER DIODES

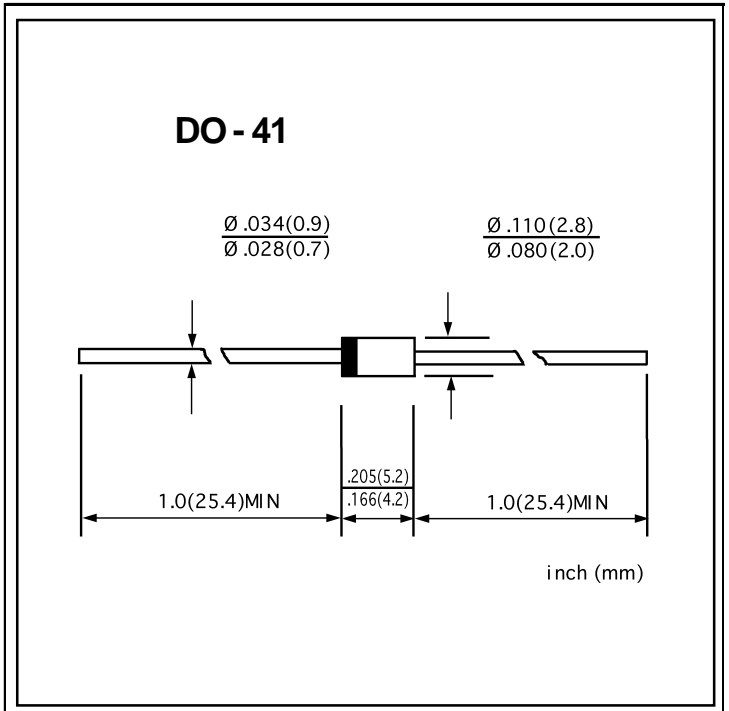
V_Z RANGE: 1.0, 3.6 - 200V
POWER DISSIPATION: 1.3 W

FEATURES

- ◇ Silicon planar power zener diodes
- ◇ For use in stabilizing and clipping circuits with high power rating.
- ◇ The zener voltages are graded according to the international E 24 standard. smaller voltage tolerances are available upon request.

MECHANICAL DATA

- ◇ Case: DO-41, plastic case
- ◇ Terminals: solderable per MIL-STD-202, method 208
- ◇ Polarity: cathode band
- ◇ Marking: type number
- ◇ Approx. weight: 0.34 grams.



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

	SYMBOL	VALUE	UNIT
Zener current (see Table "Characteristics")			
Power dissipation at T _{amb} =25°C	P _{tot}	1.3 ⁽¹⁾	W
Thermal resistance junction to ambient air	R _{thA}	<45 ⁽¹⁾	K/W
Junction temperature	T _J	-50---+150	°C
Storage temperature range	T _s	-50---+175	°C
Thermal resistance junction to lead	R _{thL}	<15	K/W

NOTES: (1) Valid provided that leads are kept at ambient temperature at a distance of 10mm from case .

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ELECTRICAL CHARACTERISTICS (T_A=25°C)

Type	Nominal zener voltage	Test current	Resistance	Zener voltage	Reverse voltage	Maximum regulator current
	V _Z @ I _{ZT}	I _{ZT}	I _{ZT} f=1kHz	α _{VZ}	IR=1μA	I _{ZM}
	V	mA	Ω	%/°C	v	mA
ZPY1 ³	0.71---0.82	100	0.5(<1)	-26 --- -16	-	1000
ZPY3.9	3.7---4.1	100	4(<7)	-7 --- +2	-	317
ZPY4.3	4.0---4.6	100	4(<7)	-7 --- +3	-	283
ZPY4.7	4.4---5.0	100	4(<7)	-7 --- +4	-	260
ZPY5.1	4.8---5.4	100	2(<5)	-6 --- +5	-	241
ZPY5.6	5.2---6.0	100	1(<3)	-3 --- +5	> 1.0	217
ZPY6.2	5.8---6.6	100	1(<2)	-1 --- +6	> 1.5	197
ZPY6.8	6.4---7.2	100	1(<2)	0 --- +7	> 2	181
ZPY7.5	7.0---7.9	100	1(<2)	0 --- +7	> 2	165
ZPY8.2	7.7---8.7	100	1(<2)	+3 --- +8	> 3.5	149
ZPY9.1	8.5---9.6	50	2(<4)	+3 --- +8	> 3.5	135
ZPY10	9.4---10.6	50	2(<4)	+5 --- +9	> 5	123
ZPY11	10.4---11.6	50	5(<6)	+5 --- +10	> 5	112
ZPY12	11.4---12.7	50	4(<7)	+5 --- +10	> 7	102
ZPY13	12.4---14.1	50	5(<10)	+5 --- +10	> 7	92
ZPY15	13.8---15.6	50	5(<10)	+5 --- +10	> 10	83
ZPY16	15.3---17.1	25	6(<15)	+6 --- +11	> 10	76
ZPY18	16.8---19.1	25	6(<15)	+6 --- +11	> 10	68
ZPY20	18.8---21.2	25	6(<15)	+6 --- +11	> 10	61
ZPY22	20.8---23.3	25	6(<15)	+6 --- +11	> 12	56
ZPY24	22.8---25.6	25	7(<15)	+6 --- +11	> 12	51
ZPY27	25.1---28.9	25	7(<15)	+6 --- +11	> 14	45
ZPY30	28---32	25	8(<15)	+6 --- +11	> 14	41
ZPY33	31---35	25	8(<15)	+6 --- +11	> 17	37
ZPY36	34---38	10	16(<40)	+6 --- +11	> 17	34
ZPY39	37---41	10	20(<40)	+6 --- +11	> 20	32
ZPY43	40---46	10	24(<45)	+7 --- +12	> 20	28
ZPY47	44---50	10	24(<45)	+7 --- +12	> 24	26
ZPY51	48---54	10	25(<60)	+7 --- +12	> 24	24
ZPY56	52---60	10	25(<60)	+7 --- +12	> 28	22
ZPY62	58---66	10	25(<80)	+8 --- +13	> 28	20
ZPY68	64---72	10	25(<80)	+8 --- +13	> 34	18
ZPY75	70---79	10	30(<100)	+8 --- +13	> 34	16
ZPY82	77---88	10	30(<100)	+8 --- +13	> 41	15
ZPY91	85---96	5	40(<200)	+9 --- +13	> 41	14
ZPY100	94---106	5	60(<200)	+9 --- +13	> 50	12
ZPY110	104---116	5	80(<250)	+9 --- +13	> 50	11
ZPY120	114---127	5	80(<250)	+9 --- +13	> 60	10
ZPY130	124---141	5	90(<300)	+9 --- +13	> 60	9
ZPY150	138---156	5	100(<300)	+9 --- +13	> 75	8
ZPY160	153---171	5	110(<350)	+9 --- +13	> 75	8