

Surface Mount Silicon Zener Diodes in DO-15

Features

- 0.1mm pitch lead spacing
- Solderable
- Operating temperature range
- High reliability
- Power dissipation capability
- Qualified for automotive applications



Mechanical Data

- **Case:** DO-15
- **Molding Compound Flammability Rating:** V-0
- **Terminals:** Lead length

Absolute Maximum Ratings

Ratings at 25°C ambient temperature unless otherwise specified.

Parameter	Symbol	Value	UNIT
DC power dissipation at $T_L = 50^\circ\text{C}^{(1)}$	P_D	5.0	W
Maximum forward voltage at $I_F = 200\text{ mA}$	V_F	1.5	V
Junction temperature range	T_J	- 55 to + 150	°C
Storage temperature range	T_{STG}	- 55 to + 150	°C

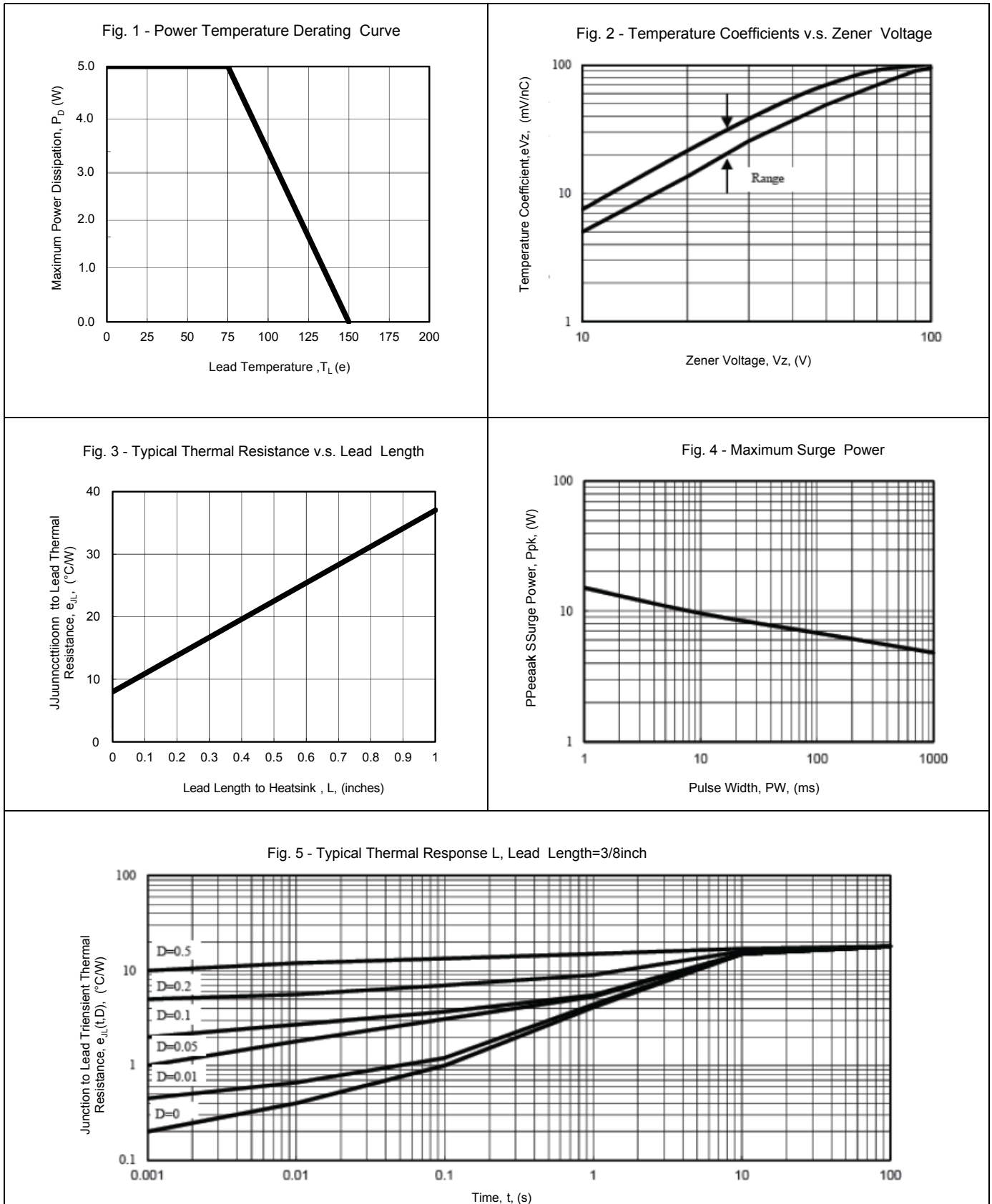
Note:

(1) T_L = Lead temperature at 3/8 " (9.5mm) from body

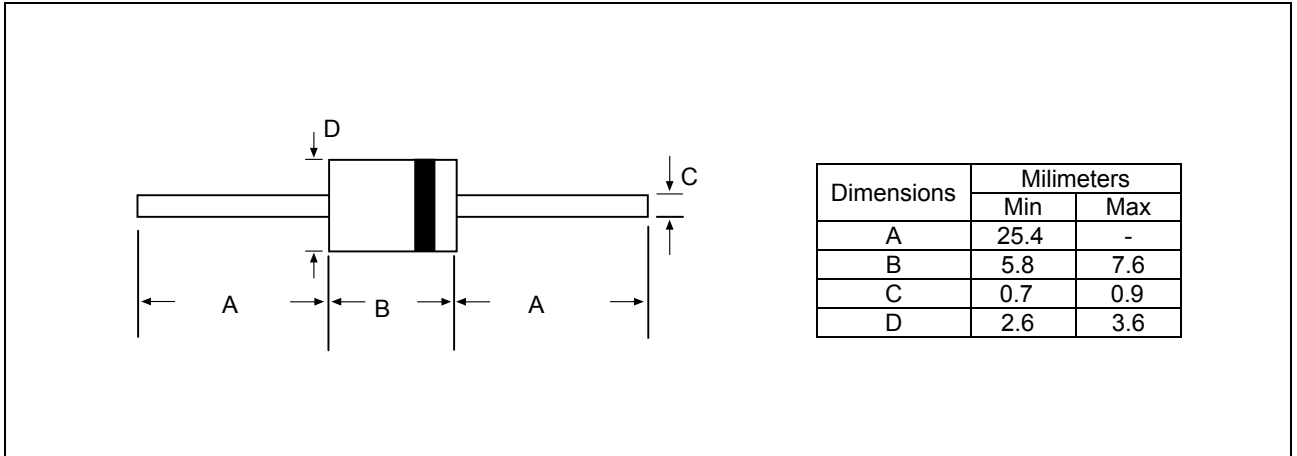
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)

Part Number	Nominal Zener Voltage @ I_T			I_{ZT} (mA)	Maximum Zener Impedance			Maximum Reverse Leakage Current		Maximum DC Zener Current I_{ZM} (mA)
	$V_{Z AVE.}$ (V)	$V_{Z MIN.}$ (V)	$V_{Z MAX.}$ (V)		$Z_{ZT MAX.}$ (Ω) @ I_{ZT}	$Z_{ZK MAX.}$ (Ω) @ I_{ZK}	I_{ZK} (mA)	I_R (μ A) @ V_R	V_R (V)	
1N5333AD5	3.3	3.14	3.47	380	3.0	400	1.00	300	1.0	1437.0
1N5334AD5	3.6	3.42	3.78	350.0	2.5	500	1.00	150	1.0	1317.0
1N5335AD5	3.9	3.71	4.10	320.0	2.0	500	1.00	50	1.0	1216.0
1N5336AD5	4.3	4.09	4.52	290.0	2.0	500	1.00	10	1.0	1103.0
1N5337AD5	4.7	4.47	4.94	260.0	2.0	450	1.00	5	1.0	1009.0
1N5338AD5	5.1	4.85	5.36	240.0	1.5	400	1.00	1.0	1.0	930.0
1N5339AD5	5.6	5.32	5.88	220.0	1.0	400	1.00	1.0	2.0	846.0
1N5340AD5	6.0	5.70	6.30	200.0	1.0	300	1.00	1.0	3.0	790.0
1N5341AD5	6.2	5.89	6.51	200.0	1.0	200	1.00	1.0	3.0	765.0
1N5342AD5	6.8	6.46	7.14	175.0	1.0	200	1.00	10.0	5.2	700.0
1N5343AD5	7.5	7.13	7.88	175.0	1.5	200	1.00	10.0	5.7	630.0
1N5344AD5	8.2	7.79	8.61	150.0	1.5	200	1.00	10.0	6.2	580.0
1N5345AD5	8.7	8.27	9.14	150.0	2.0	200	1.00	10.0	6.6	545.0
1N5346AD5	9.1	8.65	9.56	150.0	2.0	150	1.00	7.5	6.9	520.0
1N5347AD5	10.0	9.50	10.50	125.0	2.0	125	1.00	5	7.6	475.0
1N5348AD5	11.0	10.45	11.55	125.0	2.5	125	1.00	5	8.4	430.0
1N5349AD5	12.0	11.40	12.60	100.0	2.5	125	1.00	2	9.1	395.0
1N5350AD5	13.0	12.35	13.65	100.0	2.5	100	1.00	1	9.9	365.0
1N5351AD5	14.0	13.30	14.70	100.0	2.5	75	1.00	1	10.6	340.0
1N5352AD5	15.0	14.25	15.75	75.0	2.5	75	1.00	1	11.5	315.0
1N5353AD5	16.0	15.20	16.80	75.0	2.5	75	1.00	1	12.2	295.0
1N5354AD5	17.0	16.15	17.85	70.0	2.5	75	1.00	0.5	12.9	280.0
1N5355AD5	18.0	17.10	18.90	65.0	2.5	75	1.00	0.5	13.7	265.0
1N5356AD5	19.0	18.05	19.95	65.0	3.0	75	1.00	0.5	14.4	250.0
1N5357AD5	20.0	19.00	21.00	65.0	3.0	75	1.00	0.5	15.2	237.0
1N5358AD5	22.0	20.90	23.10	50.0	3.5	75	1.00	0.5	16.7	216.0
1N5359AD5	24.0	22.80	25.20	50.0	3.5	100	1.00	0.5	18.2	198.0
1N5360AD5	25.0	23.75	26.25	50.0	4.0	110	1.00	0.5	19.0	190.0
1N5361AD5	27.0	25.65	28.35	50.0	5.0	120	1.00	0.5	20.6	176.0
1N5362AD5	28.0	26.60	29.40	50.0	6.0	130	1.00	0.5	21.2	170.0
1N5363AD5	30.0	28.50	31.50	40.0	8.0	140	1.00	0.5	22.8	158.0
1N5364AD5	33.0	31.35	34.65	40.0	10.0	150	1.00	0.5	25.1	144.0
1N5365AD5	36.0	34.20	37.80	30.0	11.0	160	1.00	0.5	27.4	132.0
1N5366AD5	39.0	37.05	40.95	30.0	14.0	170	1.00	0.5	29.7	122.0
1N5367AD5	43.0	40.85	45.15	30.0	20.0	190	1.00	0.5	32.7	110.0
1N5368AD5	47.0	44.65	49.35	25.0	25.0	210	1.00	0.5	35.8	100.0
1N5369AD5	51.0	48.45	53.55	25.0	27.0	230	1.00	0.5	38.8	93.0

Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



Package Dimensions



Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
1N53xxAD5	DO-15	BOX	3000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2020	1.0	Initial release

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