

ZPD and ZMM Series 500 mW Zener Diodes **ZPD1 to ZPD51** (DO-35 Glass Package) $T_A = 25^\circ\text{C}$
ZMM1 to ZMM51 (MiniMELF Glass Package) $T_A = 25^\circ\text{C}$

Type		Zener Voltage Range*	Maximum Zener Impedance					Typical Temperature Coefficient at $I_Z = 5\text{ mA}$	Min. Reverse Voltage at $I_R = 0.1\text{ }\mu\text{A}$	Maximum Regulator Current
			at I_{ZT}	Z_{ZT}	at I_{ZT}	Z_{ZK}	at I_{ZK}			
		V_Z Volts	mA	Ohms	mA	Ohms	mA	%/°C	V_R Volts	I_{ZM} mA
ZPD1 ¹⁾	ZMM1 ¹⁾	0.7–0.8	5	8	5	50	1	–0.24	–	340
ZPD2,7	ZMM2,7	2.5–2.9	5	83	5	500	1	–0.065	–	160
ZPD3	ZMM3	2.8–3.2	5	95	5	500	1	–0.060	–	140
ZPD3,3	ZMM3,3	3.1–3.5	5	95	5	500	1	–0.055	–	130
ZPD3,6	ZMM3,6	3.4–3.8	5	95	5	500	1	–0.055	–	120
ZPD3,9	ZMM3,9	3.7–4.1	5	95	5	500	1	–0.050	–	110
ZPD4,3	ZMM4,3	4.0–4.6	5	95	5	500	1	–0.035	–	100
ZPD4,7	ZMM4,7	4.4–5.0	5	78	5	500	1	–0.015	–	90
ZPD5,1	ZMM5,1	4.8–5.4	5	60	5	480	1	+0.005	0.8	80
ZPD5,6	ZMM5,6	5.2–6.0	5	40	5	400	1	+0.020	1.0	70
ZPD6,2	ZMM6,2	5.8–6.6	5	10	5	200	1	+0.030	2.0	64
ZPD6,8	ZMM6,8	6.4–7.2	5	8	5	150	1	+0.045	3.0	58
ZPD7,5	ZMM7,5	7.0–7.9	5	7	5	50	1	+0.050	5.0	53
ZPD8,2	ZMM8,2	7.7–8.7	5	7	5	50	1	+0.055	6.0	47
ZPD9,1	ZMM9,1	8.5–9.6	5	10	5	50	1	+0.065	7.0	43
ZPD10	ZMM10	9.4–10.6	5	15	5	70	1	+0.065	7.5	40
ZPD11	ZMM11	10.4–11.6	5	20	5	70	1	+0.070	8.5	36
ZPD12	ZMM12	11.4–12.7	5	20	5	90	1	+0.075	9.0	32
ZPD13	ZMM13	12.4–14.1	5	25	5	110	1	+0.080	10	29
ZPD15	ZMM15	13.8–15.6	5	30	5	110	1	+0.080	11	27
ZPD16	ZMM16	15.3–17.1	5	40	5	170	1	+0.090	12	24
ZPD18	ZMM18	16.8–19.1	5	50	5	170	1	+0.090	14	21
ZPD20	ZMM20	18.8–21.2	5	50	5	220	1	+0.090	15	20
ZPD22	ZMM22	20.8–23.3	5	55	5	220	1	+0.090	17	18
ZPD24	ZMM24	22.8–25.6	5	80	5	220	1	+0.090	18	16
ZPD27	ZMM27	25.1–28.9	5	80	5	250	1	+0.090	20	14
ZPD30	ZMM30	28–32	5	80	5	250	1	+0.090	22.5	13
ZPD33	ZMM33	31–35	5	80	5	250	1	+0.090	25	12
ZPD36	ZMM36	34–38	5	90	5	250	1	+0.090	27	11
ZPD39	ZMM39	37–41	5	90	5	300	1	+0.110	29	10
ZPD43	ZMM43	40–46	5	100	5	700	1	+0.110	32	9.2
ZPD47	ZMM47	44–50	5	100	5	750	1	+0.110	35	8.5
ZPD51	ZMM51	48–54	5	100	5	750	1	+0.110	38	7.8

Standard Voltage Tolerance is $\pm 5\%$. Other Tolerances, Non-Standard and Higher Zener Voltages Upon Request.

¹⁾ The ZPD1 and ZMM1 are silicon diodes operated in forward direction. Hence, the cathode terminal is to be connected to the negative pole of the supply.

*Measured with pulses $t_p = 5\text{ ms}$.