

Special Purpose Regulators

Field-Effect Current Regulator Diodes

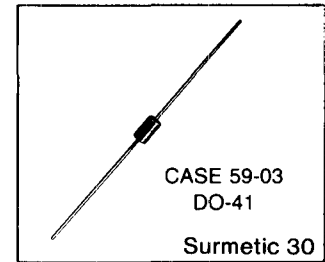
High impedance diodes whose "constant current source" characteristic complements the "constant voltage" of the zener line. Currents are available from 0.22 to 4.7 mA, with usable voltage range from a minimum limit of 1.0 to 2.5 V, up to a voltage compliance of 100 V, for the 1N5283 series, or 70 V, for the MCL1300 series.

 Glass Case 51-02 DO-204AA (DO-7)			
Reg. Current I_P @ $V_T = 25\text{ V}$ mA Nom	Device Type	Knee Imp Z_K @ $V_K = 6.0\text{ V}$ M Ω Min	Limiting Voltage @ $I_L = 0.8 I_P$ Volts Max
0.22	1N5283	2.75	1.00
0.24	1N5284	2.35	1.00
0.27	1N5285	1.95	1.00
0.30	1N5286	1.60	1.00
0.33	1N5287	1.35	1.00
0.39	1N5288	1.00	1.05
0.43	1N5289	0.870	1.05
0.47	1N5290	0.750	1.05
0.56	1N5291	0.560	1.10
0.62	1N5292	0.470	1.13
0.68	1N5293	0.400	1.15
0.75	1N5294	0.335	1.20
0.82	1N5295	0.290	1.25
0.91	1N5296	0.240	1.29
1.00	1N5297	0.205	1.35
1.10	1N5298	0.180	1.40
1.20	1N5299	0.155	1.45
1.30	1N5300	0.135	1.50
1.40	1N5301	0.115	1.55
1.50	1N5302	0.105	1.60
1.60	1N5303	0.092	1.65
1.80	1N5304	0.074	1.75
2.00	1N5305	0.061	1.85
2.20	1N5306	0.052	1.95
2.40	1N5307	0.044	2.00
2.70	1N5308	0.035	2.15
3.00	1N5309	0.029	2.25
3.30	1N5310	0.024	3.35
3.60	1N5311	0.020	2.50
3.90	1N5312	0.017	2.60
4.30	1N5313	0.014	2.75
4.70	1N5314	0.012	2.90
0.5 $\pm$ 0.03	MCL1300	0.500	1.00
1.0 $\pm$ 0.6	MCL1301	0.200	1.50
2.0 $\pm$ 0.6	MCL1302	0.100	2.00
3.0 $\pm$ 0.6	MCL1303	0.050	2.00
4.0 $\pm$ 0.6	MCL1304	0.025	2.50

☐ JAN/JANTX (V) availability

Low-Voltage Regulators

High-conductance silicon diodes designed as stable forward-reference sources for transistor amplifier biasing and similar applications. Available in high reliability glass construction or economic plastic packaging.



ELECTRICAL CHARACTERISTICS

($T_A = 25^\circ\text{C}$ unless otherwise noted).

Forward Reference Voltage		I_F Test Current mA	Leakage Current I_R @ V_R		Device Type	Case
Min	Max		μA	Volts		
0.63	0.71	10	10	5.0	MZ2360	59 Surmetic
1.24	1.38	10	10	5.0	MZ2361	59 Surmetic

The products on this page are available taped and reeled by adding an "RL" suffix to the part number when ordering.