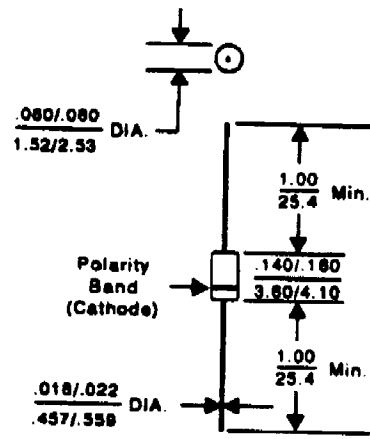


**1N5283
 thru
 1N5314**

Field-effect current regulator diodes are circuit elements that provide a current essentially independent of voltage. These diodes are especially designed for maximum impedance over the operating range.

MAXIMUM RATINGS

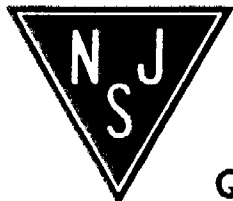
Rating	Symbol	Value	Unit
Peak Operating Voltage ($T_J = -55^\circ\text{C}$ to $+200^\circ\text{C}$)	POV	100	Volts
Steady State Power Dissipation @ $T_L = 75^\circ\text{C}$ Derate above $T_L = 75^\circ\text{C}$ Lead Length = 3/8" (Forward or Reverse Bias)	P_D	600 4.8	mW mW/ $^\circ\text{C}$
Operating and Storage Junction Temperature Range	T_J, T_{stg}	-55 to +200	$^\circ\text{C}$



All Dimensions in $\frac{\text{inch}}{\text{mm}}$

DO-35

NJ Semi-Conductors reserves the right to change test conditions, parameter limits and package dimensions without notice. Information furnished by NJ Semi-Conductors is believed to be both accurate and reliable at the time of going to press. However, NJ Semi-Conductors assumes no responsibility for any errors or omissions discovered in its use. NJ Semi-Conductors encourages customers to verify that datasheets are current before placing orders.



CURRENT REGULATOR DIODES

TYPE	NOMINAL REGULATOR CURRENT I_p (mA) @ $V_T=25V$			MINIMUM DYNAMIC IMPEDANCE Z_T @ $V_T=25V$ M ohm	MINIMUM KNEE IMPEDANCE Z_K @ $V_K=6V$ M ohm	MAXIMUM LIMITING VOLTAGE V_L @ $I_L=0.8I_p$ volts
	NOM	MIN	MAX			
1N5283	0.22	0.198	0.242	25.00	2.750	1.00
1N5284	0.22	0.216	0.264	19.00	2.350	1.00
1N5285	0.27	0.243	0.297	14.00	1.950	1.00
1N5286	0.30	0.270	0.330	9.00	1.600	1.00
1N5287	0.33	0.297	0.363	6.60	1.350	1.00
1N5288	0.39	0.351	0.429	4.10	1.000	1.05
1N5289	0.43	0.387	0.473	3.30	0.870	1.05
1N5290	0.47	0.423	0.517	2.70	0.750	1.05
1N5291	0.56	0.504	0.616	1.90	0.560	1.10
1N5292	0.62	0.558	0.682	1.55	0.470	1.13
1N5293	0.68	0.612	0.748	1.35	0.400	1.15
1N5294	0.75	0.675	0.825	1.15	0.335	1.20
1N5295	0.82	0.738	0.902	1.00	0.290	1.25
1N5296	0.91	0.819	1.001	0.88	0.240	1.29
1N5297	1.00	0.900	1.100	0.80	0.205	1.35
1N5298	1.10	0.990	1.210	0.70	0.180	1.40
1N5299	1.20	1.080	1.320	0.64	0.155	1.45
1N5300	1.30	1.170	1.430	0.58	0.135	1.50
1N5301	1.40	1.260	1.540	0.54	0.115	1.55
1N5302	1.50	1.350	1.650	0.51	0.105	1.60
1N5303	1.60	1.440	1.760	0.475	0.092	1.65
1N5304	1.80	1.620	1.980	0.420	0.074	1.75
1N5305	2.00	1.800	2.200	0.395	0.061	1.85
1N5306	2.20	1.980	2.420	0.370	0.052	1.95
1N5307	2.40	2.160	2.640	0.345	0.044	2.00
1N5308	2.70	2.430	2.970	0.320	0.035	2.15
1N5309	3.00	2.700	3.300	0.300	0.029	2.25
1N5310	3.30	2.970	3.630	0.280	0.024	2.35
1N5311	3.60	3.240	3.960	0.265	0.020	2.50
1N5312	3.90	3.510	4.290	0.255	0.017	2.60
1N5313	4.30	3.870	4.730	0.245	0.014	2.75
1N5314	4.70	4.230	5.170	0.235	0.012	2.90

Package Style.....D0-35
 D.C. Power Dissipation @75°C.....600mW max
 Peak Operating Voltage.....100 volts
 Operating Temperature Range.....-55°C to +200°C
 Storage Temperature Range.....-55°C to +200°C