CURRENT LIMITING DIODES

Electrical Characteristics (T_A = 25°C)

Part #	Regulator Current*			Dynamic Impedance	Knee Impedance	Limiting Voltage
	IP @ VT = 25V (mA)			ZT @ VT = 25V (MΩ)	ZK @ VK = 6.0V (MΩ)	VL @ IL = 0.8 IP
	Minimum	Nominal	Maximum	Minimum	Minimum	Minimum (V) Maximum
1N5283	0.198	0.22	0.242	25.0	2.75	1.00
1N5284	0.216	0.24	0.264	19.0	2.35	1.00
1N5285	0.243	0.27	0.297	14.0	1.95	1.00
1N5286	0.270	0.30	0.330	9.0	1.60	1.00
1N5287	0.297	0.33	0.363	6.6	1.35	1.00
1N5288	0.351	0.39	0.429	4.10	1.00	1.05
1N5289	0.387	0.43	0.473	3.30	0.870	1.05
1N5290	0.423	0.47	0.517	2.70	0.750	1.05
1N5291	0.504	0.56	0.616	1.90	0.560	1.10
1N5292	0.558	0.62	0.682	1.55	0.470	1.13
1N5293	0.612	0.68	0.748	1.35	0.400	1.15
1N5294	0.675	0.75	0.825	1.15	0.335	1.20
1N5295	0.738	0.82	0.902	1.00	0.290	1.25
1N5296	0.819	0.91	1.001	0.880	0.240	1.29
1N5297	0.900	1.00	1.10	0.800	0.205	1.35
1N5298	0.990	1.10	1.21	0.700	0.180	1.40
1N5299	1.08	1.20	1.32	0.640	0.155	1.45
1N5300	1.17	1.30	1.43	0.580	0.135	1.50
1N5301	1.26	1.40	1.54	0.540	0.115	1.55
1N5302	1.35	1.50	1.65	0.510	0.105	1.60
1N5303	1.44	1.60	1.76	0.475	0.092	1.65
1N5304	1.62	1.80	1.98	0.420	0.074	1.75
1N5305	1.80	2.00	2.20	0.395	0.061	1.85
1N5306	1.98	2.20	2.42	0.370	0.052	1.95
1N5307	2.16	2.40	2.64	0.345	0.044	2.00
1N5308	2.43	2.70	2.97	0.320	0.035	2.15
1N5309	2.70	3.00	3.30	0.300	0.029	2.25
1N5310	2.97	3.30	3.63	0.280	0.024	2.35
1N5311	3.24	3.60	3.96	0.265	0.020	2.50
1N5312	3.51	3.90	4.29	0.255	0.017	2.60
1N5313	3.87	4.30	4.73	0.245	0.014	2.75
1N5314	4.23	4.70	5.17	0.235	0.012	2.90

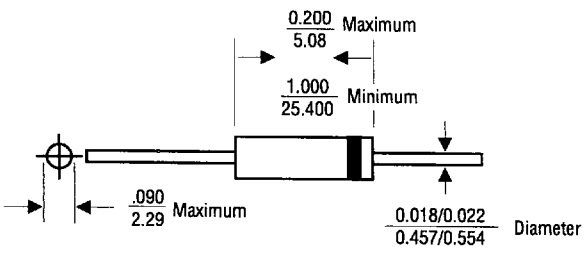
* Pulsed method. Pulse widths (ms) = $\frac{27.5}{\text{Ip NOM (mA)}}$

PICO AMP DIODES ULTRA LOW LEAKAGE

Part #	Symbol	Characteristics	Minimum	Maximum	Units	Test Conditions
AP110	BV	Breakdown Voltage	30		V	I_R = 5.0 uA
AP101	BV	Breakdown Voltage	20		V	I_R = 5.0 uA
AP110	IR	Reverse Current		1.0	pA	V_R = 5.0 V
	IR	Reverse Current		10.0	pA	V_R = 15.0 V
AP101	IR	Reverse Current		5.0	pA	V_R = 5.0 V
	IR	Reverse Current		15.0	pA	V_R = 15.0 V
AP110	VF	Forward Voltage		1.05	V	I_F = 5 0.0 mA
AP101	VF	Forward Voltage		1.10	V	I_F = 50.0 mA
AP110	C	Capacitance		1.5	pF	V_R = 0.1 1mHz
AP101	C	Capacitance		1.8	pF	V_R = 0.1 1mHz

DO-35

All dimensions in inch/mm



CASE: Hermetically sealed glass package
FINISH: Corrosion resistant. Leads are tin plated
THERMAL RESISTANCE: 200°C/w junction to lead @ 0.375" from body
POLARITY: Cathode band
WEIGHT: 0.2 grams (typical)

SEMICONDUCTORS

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OR FAX US AT 617-592-0677