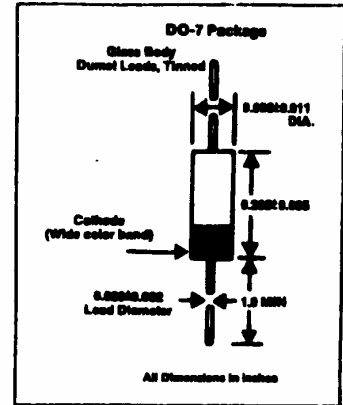


# MILITARY APPROVED Current Regulator Field Effect Diodes

1N5283  
thru  
1N5314  
and  
JAN/JTX/JTXV

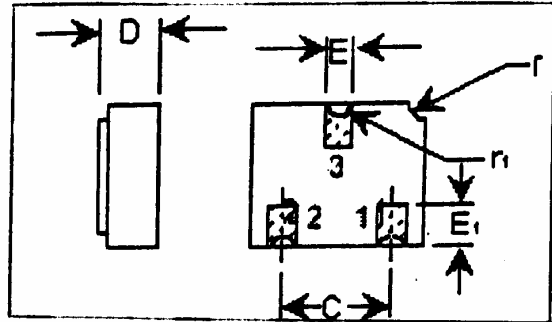
GEOMETRY 507 (1N5283-1N5290) GEOMETRY 465 (1N5291-1N5314)



- Available as JAN, JAN-IX, JAN-IX-v thru Max Components\*
- Current Constant Over Wide Voltage Range
- High Source Impedance
- Connect in Parallel for Higher Current

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

(UB Package)



## ELECTRICAL SPECIFICATIONS: $T_A = 25^\circ\text{C}$ unless otherwise noted

Type No.	Regulator Current $I_p$ (mA) @ $V_T = 25\text{V}$ (1)			Minimum Dynamic Impedance @ $V_T = 25\text{V}$ $Z_T$ (MΩ)	Minimum Knee Impedance @ $V_T = 6.0\text{V}$ $Z_K$ (MΩ)	Maximum Limiting Voltage @ $I_L = 6.0 I_p$ (min) $V_L$ (Volts)	Temperature Coefficient @ $V_T = 25\text{V}$ $-55^\circ\text{C}$ to $+25^\circ\text{C}$ (%/°C)		Temperature Coefficient @ $V_T = 25\text{V}$ $25^\circ\text{C}$ to $+100^\circ\text{C}$ (%/°C)	
	nom.	min.	max.				-	+	-	+
1N5283	0.22	0.188	0.242	25.0	2.750	1.00	-0.10	+1.35	-0.08	+0.70
1N5284	0.24	0.216	0.284	19.0	2.350	1.00	-0.15	+1.25	-0.10	+0.68
1N5285	0.27	0.243	0.287	14.0	1.950	1.00	-0.15	+1.15	-0.12	+0.68
1N5286	0.30	0.270	0.330	9.0	1.600	1.00	-0.15	+1.05	-0.15	+0.52
1N5287	0.33	0.287	0.363	6.6	1.300	1.00	-0.20	+0.95	-0.18	+0.47
1N5288	0.36	0.361	0.429	4.10	1.000	1.05	-0.30	+0.82	-0.20	+0.38
1N5289	0.43	0.387	0.473	3.30	0.870	1.05	-0.32	+0.75	-0.22	+0.33
1N5290	0.47	0.423	0.517	2.70	0.750	1.05	-0.35	+0.70	-0.23	+0.28
1N5291	0.56	0.504	0.616	1.90	0.580	1.10	-0.40	+0.55	-0.25	+0.20
1N5292	0.62	0.558	0.682	1.55	0.470	1.13	-0.42	+0.45	-0.27	+0.15
1N5293	0.68	0.612	0.748	1.35	0.400	1.15	-0.45	+0.40	-0.28	+0.12
1N5294	0.75	0.675	0.825	1.15	0.335	1.20	-0.50	+0.35	-0.30	+0.07
1N5295	0.82	0.738	0.902	1.00	0.290	1.25	-0.52	+0.27	-0.31	+0.03
1N5296	0.91	0.819	1.001	0.880	0.240	1.29	-0.55	+0.20	-0.32	
1N5297	1.00	0.900	1.100	0.800	0.205	1.35	-0.55	+0.15	-0.34	
1N5298	1.10	0.980	1.210	0.700	0.180	1.40	-0.60	+0.10	-0.36	
1N5299	1.20	1.080	1.320	0.640	0.155	1.45	-0.63	+0.05	-0.37	
1N5300	1.30	1.170	1.430	0.580	0.135	1.50	-0.65		-0.38	
1N5301	1.40	1.280	1.540	0.540	0.115	1.55	-0.68		-0.39	
1N5302	1.50	1.350	1.650	0.510	0.105	1.60	-0.70		-0.40	
1N5303	1.60	1.440	1.760	0.475	0.082	1.65	-0.70		-0.40	
1N5304	1.60	1.620	1.980	0.420	0.074	1.75	-0.72		-0.41	
1N5305	2.00	1.800	2.200	0.385	0.061	1.85	-0.75		-0.42	
1N5306	2.20	1.980	2.480	0.370	0.052	1.95	-0.78		-0.42	
1N5307	2.40	2.160	2.640	0.345	0.044	2.00	-0.78		-0.43	
1N5308	2.70	2.430	2.970	0.320	0.035	2.15	-0.80		-0.43	
1N5309	3.00	2.700	3.300	0.300	0.029	2.25	-0.81		-0.43	
1N5310	3.30	2.970	3.630	0.280	0.024	2.35	-0.82		-0.44	
1N5311	3.60	3.240	3.960	0.265	0.020	2.50	-0.83		-0.44	
1N5312	3.90	3.510	4.290	0.255	0.017	2.60	-0.84		-0.45	
1N5313	4.30	3.870	4.730	0.245	0.014	2.75	-0.85		-0.45	
1N5314	4.70	4.230	5.170	0.235	0.012	2.90	-0.88		-0.45	

- 1- Anode
- 2-
- 3-Cathode

(1) Measure with 300μs, 2% duty cycle pulse.