• 1N5283-1 THRU 1N5314-1 AVAILABLE IN JAN, JANTX, JANTXV AND JANS

PER MIL-PRF-19500/463

- CURRENT REGULATOR DIODES
- HIGH SOURCE IMPEDANCE
- METALLURGICALLY BONDED
- DOUBLE PLUG CONSTRUCTION

MAXIMUM RATINGS

Operating Temperature: -65°C to +175°C Storage Temperature: -65°C to +175°C DC Power Dissipation: 500mW @ TL= +50°C, L = 3/8" Power Derating: 4 mW / °C above +50°C Peak Operating Voltage: 100 Volts

ELECTRICAL CHARACTERISTICS @ 25°C, unless otherwise specified

TYPE NUMBER	REGULATOR CURRENT I p (mA) @ VS = 25V			MINIMUM DYNAMIC IMPEDANCE @Vs = 25V Zs (MΩ)	MINIMUM KNEE IMPEDANCE @ V _K = 6.0 V Z _K (MΩ)	MAXIMUM LIMITING VOLTAGE @ IL = 0.8 lp (min)
	NOM	MIN	MAX	(Note 1)	(Note 2)	VL (VOLTS)
1N5283 1N5284 1N5285 1N5286 1N5287	0.22 0.24 0.27 0.30 0.33	0.198 0.216 0.243 0.270 0.297	0.242 0.264 0.297 0.330 0.363	25.0 19.0 14.0 9.0 6.6	2.75 2.35 1.95 1.60 1.35	1.00 1.00 1.00 1.00 1.00
1N5288 1N5289 1N5290 1N5291 1N5292	0.39 0.43 0.47 0.56 0.62	0.351 0.387 0.423 0.504 0.558	0.429 0.473 0.517 0.616 0.682	4.10 3.30 2.70 1.90 1.55	1.00 0.870 0.750 0.560 0.470	1.05 1.05 1.05 1.10 1.10 1.13
1N5293 1N5294 1N5295 1N5296 1N5296 1N5297	0.68 0.75 0.82 0.91 1.00	0.612 0.675 0.738 0.819 0.900	0.748 0.825 0.902 1.001 1.100	1.35 1.15 1.00 0.880 0.800	0.400 0.335 0.290 0.240 0.205	1.15 1.20 1.25 1.29 1.35
1N5298 1N5299 1N5300 1N5301 1N5302	1.10 1.20 1.30 1.40 1.50	0.990 1.08 1.17 1.26 1.35	1.210 1.32 1.43 1.54 1.65	0.700 0.640 0.580 0.540 0.510	0.180 0.155 0.135 0.115 0.105	1.40 1.45 1.50 1.55 1.60
1N5303 1N5304 1N5305 1N5306 1N5306 1N5307	1.60 1.80 2.00 2.20 2.40	1.44 1.62 1.80 1.98 2.16	1.76 1.98 2.20 2.42 2.64	0.475 0.420 0.395 0.370 0.345	0.092 0.074 0.061 0.052 0.044	1.65 1.75 1.85 1.95 2.00
1N5308 1N5309 1N5310 1N5311 1N5312	2.70 3.00 3.30 3.60 3.90	2.43 2.70 2.97 3.24 3.51	2.97 3.30 3.63 3.96 4.29	0.320 0.300 0.280 0.265 0.255	0.035 0.029 0.024 0.020 0.017	2.15 2.25 2.35 2.50 2.60
1N5313 1N5314	4.30 4.70	3.87 4.23	4.73 5.17	0.245 0.235	0.014 0.012	2.75 2.90

NOTE 1 Z_S is derived by superimposing A 90Hz RMS signal equal to 10% of V_S on V_S

NOTE 2 Z_K is derived by superimposing A 90Hz RMS signal equal to 10% of V_K on V_K

1N5283 thru 1N5314 and 1N5283-1 thru 1N5314-1

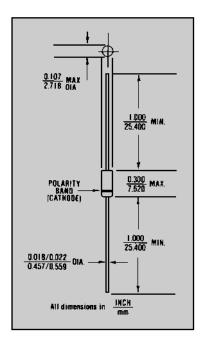


FIGURE 1

DESIGN DATA

CASE: Hermetically sealed glass case. DO - 7 outline.

LEAD MATERIAL: Copper clad steel.

LEAD FINISH: Tin / Lead

THERMAL RESISTANCE: (R_{QJEC}): 250 °C/W maximum at L = .375 inch

THERMAL IMPEDANCE: (ZQJX): 25 °C/W maximum

POLARITY: Diode to be operated with the banded (Cathode) end negative.

WEIGHT: 0.2 grams.

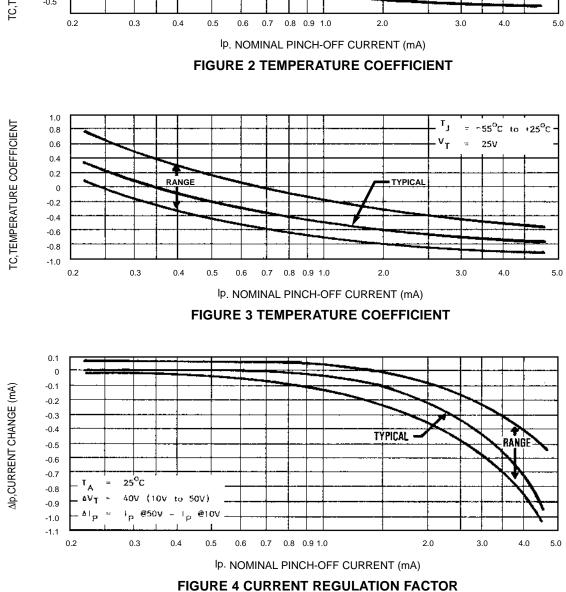
MOUNTING POSITION: Any.

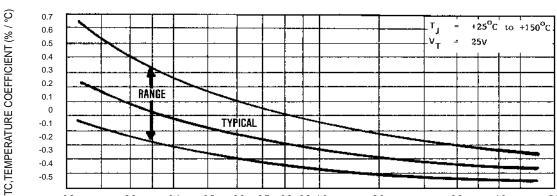


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1N5283 thru 1N5314 INCLUDING -1 VERSIONS