JEDEC TYPE NO.	MFG CODE	MFG TYPE NO.	NOMINAL ZENER VOLTAGE Vz @Izt VOLTS	ZENER TEST CURRENT (Izt) mA	MAX. ZENER IMPEDANCE Zzt @Izt OHMS	MAX. ZENER IMPEDANCE Zzk @ 1mA (Izk) OHMS	MAX. DC ZENER CURRENT (Izm) @75°C STUD TEMP mA	TYPICAL ZENER VOLTAGE TEMP COEFF. %/°C
	A	DZ20426	6.5	380	1.1	700	1350	.038
1N2970	A	10Z6.8D	6.8	370	1.2	500	1320	.040
1N2971	A	10Z7.5D	7.5	335	1.3	250	1180	.045
1N2972	A	10Z8.2D	8.2	305	1.5	250	1040	.048
1N2973	A	10Z9.1D	9.1	275	2.0	250	960	.050
1N2974	A	10Z10D	10	250	3	250	860	.055
1N2975	A	10Z11D	11	230	3	250	780	.060
1N2976	A	10Z12D	12	210	3	250	720	.065
1N2977	A	10Z13D	13	190	3	250	660	.065
1N2978	A	10Z14D	14	180	3	250	600	.070
1N2979	A	10Z15D	15	170	3	250	560	.070
1N2980	A	10Z16D	16	155	4	250	530	.070
1N2981	A	10Z17D	17	145	4	250	500	.075
1N2982	A	10Z18D	18	140	4	250	460	.075
1N2983	A	10Z19D	19	130	4	250	440	.075
1N2984	A	10Z20D	20	125	4	250	420	.075
1N2985	A	10Z22D	22	115	5	250	380	.080
1N2986	A	10Z24D	24	105	5	250	350	.080
1N2987	A	10Z25D	25	100	6	250	310	.080
1N2988	A	10Z27D	27	95	7	250	300	.085
1N2989	A	10Z30D	30	85	8	300	280	.085
1N2990	A	10Z33D	33	75	9	300	260	.085
1N2991	A	10Z36D	36	70	10	300	230	.085
1N2992	A	10Z39D	39	65	11	300	210	.090
1N2993	A	10Z43D	43	60	12	400	195	.090
1N2994	A	10Z45D	45	55	13	400	185	.090
1N2995	A	10Z47D	47	55	14	400	175	.090
1N2996	A	10Z50D	50	50	15	500	165	.090
1N2997	A	10Z51D	51	50	15	500	162	.090
1N2998	A	10Z52D	52	50	15	500	160	.090
1N2999	A	10Z56D	56	45	16	500	150	.090
1N3000	A	10Z62D	62	40	17	600	130	.090
1N3001	A	10Z68D	68	37	18	600	120	.090
1N3002	A	10Z75D	75	33	22	600	110	.090
1N3003	A	10Z82D	82	30	25	700	100	.090
1N3004	A	10Z91D	91	28	35	800	85	.090
1N3005	A	10Z100D	100	25	40	900	80	.090
1N3006	A	10Z105D	105	25	45	1000	75	.095
1N3007	A	10Z110D	110	23	55	1100	72	.095
1N3008	A	10Z120D	120	20	75	1200	67	.095
1N3009	A	10Z130D	130	19	100	1300	62	.095
1N3010	A	10Z140D	140	18	125	1400	58	.095
1N3011	A	10Z150D	150	17	175	1500	54	.095
1N3012	A	10Z160D	160	16	200	1600	51	.095
1N3013	A	10Z175D	175	14	250	1750	46	.095
1N3014	A	10Z180D	180	14	260	1800	45	.095
1N3015	A	10Z200D	200	12	300	2000	40	.100
	B	SZ1544	24	10	30	250	350	.080

FOR VR101-24S51 ONLY

REVISIONS

ZONE	SYM	DESCRIPTION	DATE	E.M.N. NO.	DRAFT	CHKD	APPD
H5	A	IN CHART DZ20426 IN Zzk COL. 700 WAS 500	9-3-63	9882			
B5	B	IN PART NO. FORMAT RED & BLACK BANDS WERE REVERSED	11-26-63	10481			
7, A3 B4 C7,H7	C	MFG. CODE COLUMN ADD., S401 Nos ADDED ON VR-101- TOLER. 50=±5% ADDED. B, SZ1345 ADDED TO CHART, MFG TYPE No. W. DICKSON	7.9.64	11775			
C7,6,5 C4,3	D	SZ1544;24;10;30 WAS SZ1345;24;105;5 TO SZ1544 "FOR VR101-24S51 ONLY" ADDED	10.5.64	12502			
	E	ADD. "JEDEC" NOTE; CORRECTED SCHEMATICS; REVISED P/N DESCRIPTIONS	2-2366	15826			

NOTE: USE JEDEC TYPE NO. EXCEPT AS NOTED IN PART NO. DESCRIPTIONS

STANDARD DRAWING

SPECIFICATIONS

MAXIMUM RATINGS

JUNCTION AND STORAGE TEMP: -65° TO +175°C
D.C. POWER DISSIPATION - 10 WATTS

MECHANICAL CHARACTERISTICS

CASE: INDUSTRY STD. DO-4, 7/16" HEX. STUD WITH 10-32 THREADS, WELDED, HERMETICALLY SEALED METAL AND GLASS.

FINISH: ALL EXTERNAL SURFACES ARE CORROSION RESISTANT AND TERMINAL SOLDERABLE.

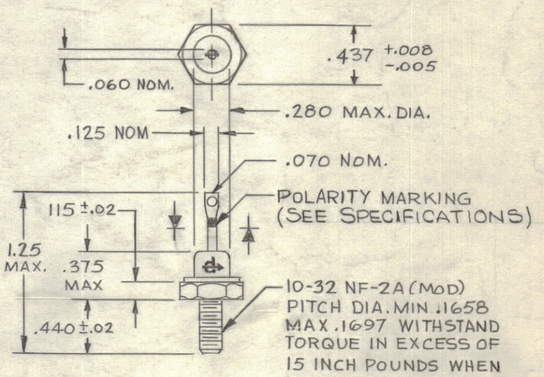
THERMAL RESISTANCE: 5° C/W (TYPICAL) JUNCTION TO STUD

RED BAND: (ON TERMINAL) INDICATES STANDARD ANODE-TO-STUD POLARITY FOR NEGATIVE-GROUNDED APPLICATIONS.

BLACK BAND: (ON TERMINAL) INDICATES CATHODE-TO-STUD POLARITY FOR POSITIVE GROUNDED APPLICATIONS.

WEIGHT: 7.5 GRAMS

HARDWARE TO BE SUPPLIED BY MANUFACTURE:
TWO MICA WASHERS, ONE TEFLON BUSHING, FLAT WASHER, NUT AND SOLDER LUG.



VR-101 E

PURCHASING NOTES:

TMC PART NO. (EXCEPT 6.5 VOLT AND +5% -0% TOLERANCES) SHALL BE IN THE FOLLOWING FORM:

1N2970 R A

- BASIC JEDEC NO.
- R = REVERSE POL NOTE - FOR STD. POLARITY, OMIT THIS LETTER
- A = ±10%, B = ±5%, FOR STD TOL (±20%) OMIT THIS LETTER

TMC PART NO. TO BE IN THE FOLLOWING FORM (6.5 VOLT AND +5% -0% TOLERANCE ONLY):

VR-101-6.5 S 20

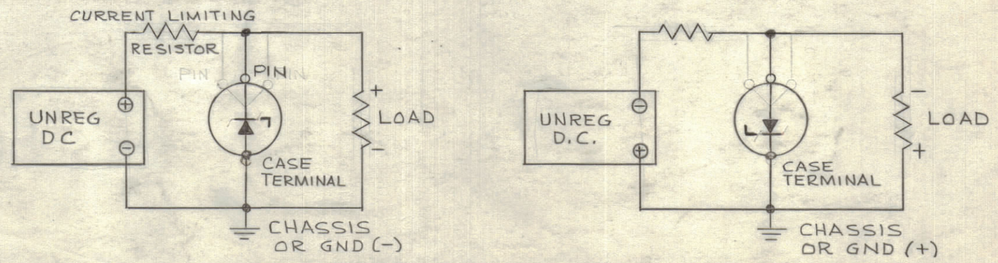
- BASIC
- NOM VOLT CODE SEE CHART
- POLARITY: R = REVERSE POL. (CATH TO STUD BLACKBAND); S = STD POL. (ANODE TO STUD RED. BAND)
- TOLERANCE: 5 = ±5%, 10 = ±10%, 20 = ±20% (20% STD), 51 = +5% -0%

PURCHASING NOTE: WHEN USING MFG. PART NO., USE THE FOLLOWING FORM:

10 Z 200D R 5

- 10 WATTS
- MFG CODE ZENER TYPE
- NOM VOLT AND MFG CODE
- R = REVERSE POL. (CATH TO STUD) NOTE - FOR STD. POLARITY (ANODE TO STUD) OMIT THIS LETTER
- TOLERANCE: 5 = ±5%, 10 = ±10%, NOTE - FOR TOL., ±20%, OMIT THIS NO.

TYPICAL CIRCUIT CONNECTIONS



NOTES

REQ'D.	ITEM	PART NUMBER	DESCRIPTION	SYMBOL
GELLMAN			LIST OF MATERIAL	

MATERIAL

FINISH

THE TECHNICAL MATERIEL CORP.
MAMARONECK, NEW YORK

TITLE: DIODE, SILICON, ZENER TYPE 10 WATT

Q'TY./UNIT	MODEL USED ON	ASS'Y. NO.
SCALE	CODE C	MFG A-S401-255, B-S401-302

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES

DECIMALS .X ± .05, .XX ± .01, .XXX ± .005 — TOLERANCES — FRACTIONS ± 1/64, ANGLES ± 0° 30'

DRAWN M. TANTILLO	DATE 8-6-62	FINAL APPROVAL BP	DATE
CHECKED	DATE 8/10/62		
ELECT. DES.	DATE	VR-101	E
MECH. DES.	DATE	SHEET	REV. LTR.

TMC FORM 110