

HIGH VOLTAGE SILICON RECTIFIERS**(FOR TELEVISION APPLICATIONS)**

NTE Type No.	Diagram Number	Peak Reverse Voltage	Peak Repetitive Forward Current mA	Average Forward Current mA	Forward Voltage Drop	Maximum One Half Cycle Surge
		P _{RV}	I _{FRM}	I _F	V _F	I _{FM} (Surge)
513	191	45kV	200	5	75V @ 50mA	—
518	49	10kV	—	25	18V @ 25mA	3A
527A	57	35kV	—	2.2	60V @ 10mA	100mA

HIGH VOLTAGE SELENIUM RECTIFIERS**(FOR TELEVISION APPLICATIONS)**

NTE Type No.	Diagram Number	Maximum Values		Operating Conditions		
		No-Load D.C. Voltage	Peak Pulse Voltage	Nominal D.C. Voltage	Nominal Peak Pulse Voltage	Nominal Forward Current μ A
118	186	7,500	8,400	6,500	8,000	200
503	187	14,300	17,000	13,000	15,500	200
504	188	19,800	23,000	18,000	21,500	200
505	189	22,000	26,000	20,000	24,000	200

SILICON HIGH VOLTAGE RECTIFIERS**(FOR INDUSTRIAL AND MICROWAVE OVENS)**

NTE Type No.	Diagram Number	P _{RV} Minimum Avalanche Voltage	Maximum Average Rectified Current mA	Maximum Forward Peak Surge Current 1 – 60Hz	Maximum Forward Voltage Drop @ I _F	Maximum Reverse Leakage Current μ A
		V _{PK}	I _O	I _{FM} (Surge)	V _{FM}	I _{RM}
541	83	10kV @ 1mA	750 @ T _A = 40°C	50	8.5V @ 750mA	10 @ 5kV
542	84	16kV @ 10 μ A	350 @ T _A = 50°C	50	14V @ 350mA	5 @ 16kV
546	85	12kV @ 100 μ A	400 @ T _C = 55°C	25	—	1 @ 5kV
548	86	12kV @ 100 μ A	750 @ T _C = 60°C	250	14V @ 750mA	5 @ 12kV

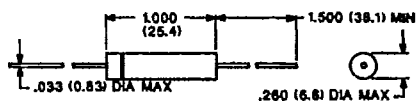
HV SOLID STATE TUBE REPLACEMENTS**(FOR VACUUM RECTIFIER TUBES)**

NTE Type No.	Diagram Number	Replaces The Following Tube Types:	Peak Inverse Voltage	Forward Voltage Drop @ I _F	Average Forward Current mA	Peak Repetitive Forward Current mA
			P _{RV}	V _F	I _F	I _{FRM}
508	87	3A3, 3AW3, 3B2, 3CA3, 3CN3, 3CU3, 3CZ3, 2CN3, 1B3, 1G3, 1K3, 1J3	45,000	50V @ 5mA	5	110
509	87	3AT2, 3AW2, 3BL2, 3BM2, 3BN2	45,000	50V @ 5mA	5	110
510	87	3CY3, 3DB3, 3DJ3, 3DC3	45,000	50V @ 5mA	5	110
511	89	2AV2, 2BA2, 1V2	9,000	20V @ 5mA	5	110
512	90	6BA3, 6BS3, 6CH3, 6CJ3, 6CK3, 6CL3, 6CM3, 6DW3	6,000	10V @ 350mA	250	1300
514	87	3DR3, 3DS3	45,000	50V @ 5mA	5	110

DIMENSIONAL OUTLINE DRAWINGS

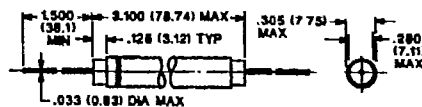
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Diagram 49



COLOR BAND DENOTES CATHODE

Diagram 57



COLOR BAND DENOTES CATHODE

Diagram 83

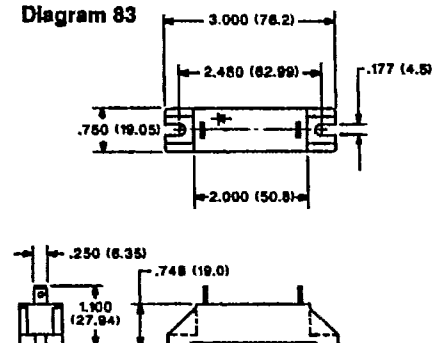


Diagram 84

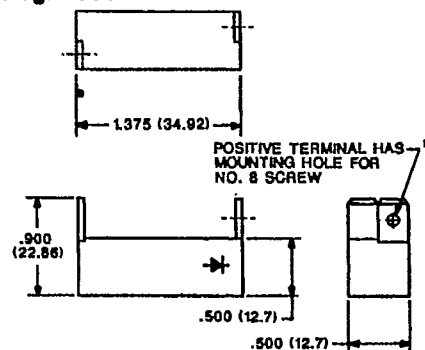


Diagram 85

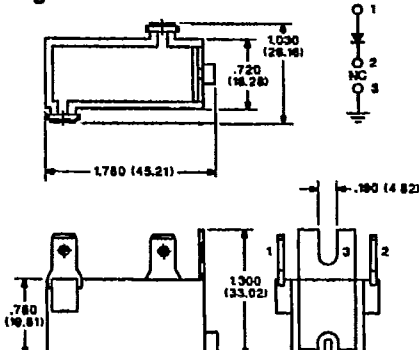


Diagram 86

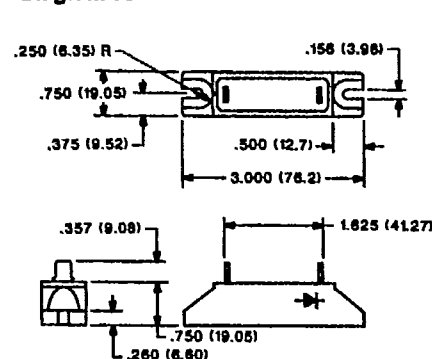


Diagram 87

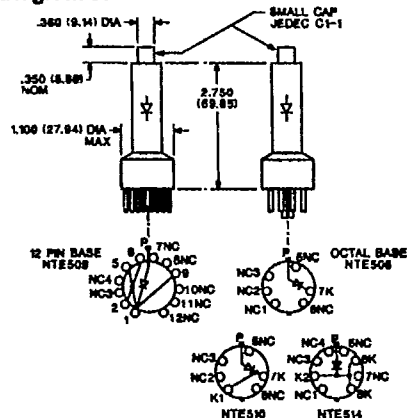


Diagram 89

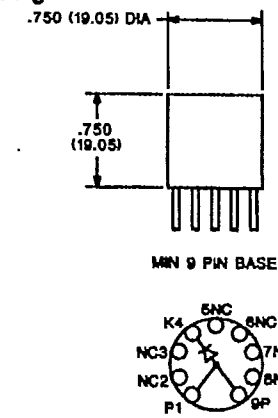


Diagram 90

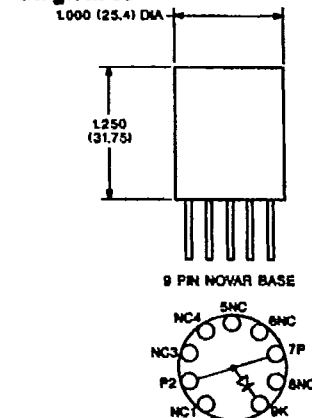
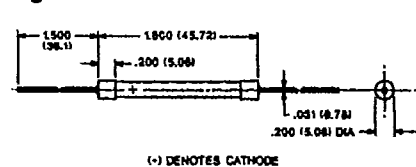
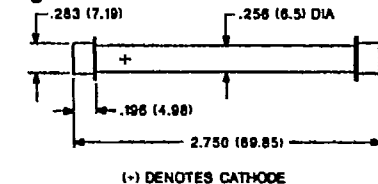


Diagram 186



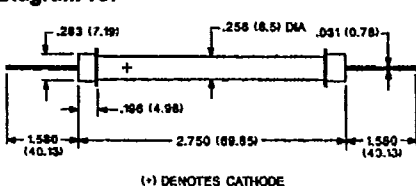
(-) DENOTES CATHODE

Diagram 188



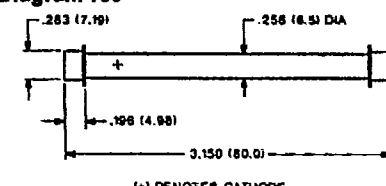
(-) DENOTES CATHODE

Diagram 187



(-) DENOTES CATHODE

Diagram 189



(-) DENOTES CATHODE

Diagram 191

