

Mercury-vapor tetrode thyatron with negative-control characteristic for motor control and other industrial power-switching applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	5 V / 10 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Thyatron	
MAXIMUM PLATE VOLTAGE	2500 V
MAXIMUM CATHODE CURRENT	40 A
WARM-UP TIME	3000 s
Promoted values are mapped from the supplied datasheet; additional published ratings, characteristics, capacitances and operating points are retained in TUBE_SECTION_PARAMETER.	

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SOURCE OPERATING CONDITIONS

1963 Mullard

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1963 MULLARD

Section 1 · Thyatron

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak forward anode voltage maximum	2500 V	—
Peak inverse anode voltage maximum	2500 V	—
Peak cathode current maximum	40 A	Frequency>=25Hz
Peak cathode current maximum	12.8 A	Frequency<25Hz
Average cathode current maximum	6.4 A	AveragingTime=15s
Surge cathode current maximum	400 A	FaultDuration<=0.1s
Negative control-grid voltage maximum	1000 V	BeforeConduction
Control-grid current maximum	10 A	DuringConduction
Shield-grid voltage maximum	500 V	BeforeConduction
Condensed mercury temperature minimum	40 degC	—
Condensed mercury temperature maximum	80 degC	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Minimum cathode heating time	50 min	—
Deionisation time	1000 us	Approximate
Ionisation time	10 us	Approximate
Anode voltage drop	16 V	Conducting

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-to-control-grid capacitance	2 pF	—

TUBE TINKER

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