ESU103

HALF-WAVE XENON RECTIFIER

TENTATIVE

GENERAL

The ESU103 is a directly heated half-wave Xenon Rectifier requiring a heating delay time of 10 seconds. Two rectifiers in a Full-wave circuit will give an output of 0.5 amps at 3.2kV or 1.0 amp at 1.6kV. This rectifier may be operated in the ambient temperature range —50°C to +75°C.

RATING

Filament Voltage (volts)	V_f	2.5	
Filament Current (amps)	I_f	5.0	
Maximum Peak Inverse Voltage (kV)	PIV (max)	5.0	10.0
Maximum Peak Anode Current (amps)	$i_{a(pk)max}$	2.0	1.0
Maximum Mean Anode Current (amps)	$I_{a(av)max}$	0.5	0.25
Maximum Voltage Drop (volts)			12.0
Minimum Heating Time (secs)			10
Ambient Temperature Range (°C)		—55 to +75	

DIMENSIONS

Maximum Overall Length	(mm)	160
Maximum Seated Height	(mm)	144
Maximum Diameter	(mm)	52
Approximate Nett Weight	(ozs)	4
Approximate Packed Weight	(ozs)	8

MOUNTING POSITION—Unrestricted

Associated Electrical Industries Limited

Electronic Components Division

Tel.: GERrard 9797

ESU103

HALF-WAVE XENON RECTIFIER

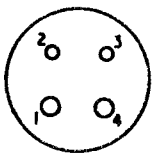
TENTATIVE

TYPICAL OPERATION—Full-wave (2 Valves)

Peak Inverse Voltage Rating (kV)	PIV(max)	5	10
Output Voltage (kV)	V_{out}	1.6	3.2
Output Current (amps)	I_{out}	1.0	0.5

TOP CAP—CT3

BASE—UX4 with Bayonet



Viewed from free end of pins.

VALVE HOLDER—Ediswan Clix VH262/4

TOP CAP CONNECTOR—Ediswan Clix TC433

CONNECTIONS

Pin 1	Filament	f
Pin 2	No Connection	NC
Pin 3	No Connection	NC
Pin 4	Filament, Shield	f,s
Top Cap	Anode	a

Associated Electrical Industries Limited
Electronic Components Division
Tel.: GERrard 9797