

EDISWAN

ESU105

HALF-WAVE XENON RECTIFIER

TENTATIVE

GENERAL

The ESU105 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 $+75^{\circ}\text{C}$.

RATING

Filament Voltage (volts)	V_f		2.0
Filament Current (amps)	I_f		7.0
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 ($^{\circ}\text{C}$)			-50 to $+75$

DIMENSIONS

Maximum Overall Length	(mm)	170
Maximum Diameter	(mm)	52
Approximate Nett Weight	(ozs)	4
Approximate Packed Weight	(ozs)	8

MOUNTING POSITION—Unrestricted

EDISWAN

ESU105

HALF-WAVE XENON RECTIFIER

TENTATIVE

TYPICAL OPERATION—Full Wave (2 valves)

Peak Inverse Voltage Rating (kV)	PIV(max)	5.0	10.0
Output Voltage (kV)	V _{out}	1.6	3.2
Output Current (amps)	I _{out}	1.0	0.5

TOP CAP—CT3

BASE—GES

VALVE HOLDER—Ediswan Clix 4857

TOP CAP CONNECTOR—Ediswan Clix TC433

CONNECTIONS

Base Centre	Filament, Shield	f,s
Base Shell	Filament	f
Top Cap	Anode	a