

Silicon High Voltage Cartridge

Series L high voltage silicon rectifiers are designed for applications requiring minimum size combined with maximum power. The half-wave configuration consists of matched, pre-tested, pre-selected double diffused avalanche rectifiers offering self-protection against voltage transients. Faster assembly by eliminating the need of soldering many diodes to achieve equivalent circuitry is a decided economy made possible by axial leads that facilitate point-to-point circuit soldering. These compact packages, offering long life and a high degree of reliability, meet rigid environmental conditions. Half-wave circuits in voltage ratings from 1500 to 30,000 volts PIV. Currents range from 20 mA to 1 amp. Special types are available upon request.

Electrical Ratings (for Half Wave Circuit)

Maximum Allowable DC Output Current:

at 25 °C ambient temperature,	1 amp
at 100 °C ambient temperature,	750 mA
at 150 °C ambient temperature,	250 mA

Maximum Allowable One Cycle Surge Current:

(60 cps single phase non-recurrent, at rated PRV and no load	60 amps
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Maximum Full Load Forward Voltage Drop Per KV:

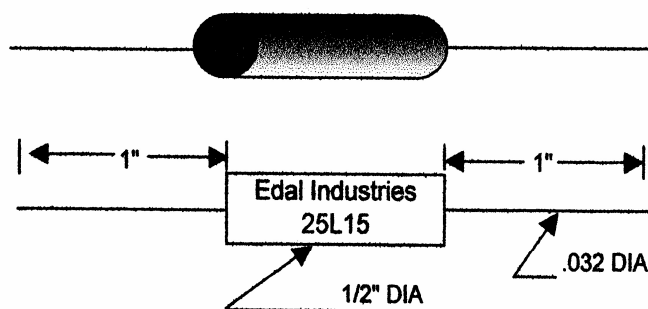
(150 °C full cycle average)	.5 volt
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Maximum Reverse Current:

(150 °C full cycle average)	.5 mA
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Storage Temperature: -65 °C to 150 °C

Ambient Operating Temperature: -65 °C to 150 °C



"L" is equal to 1/8 inch per KV plus 3/4" for half wave circuit

SERIES L SPECIFICATIONS

CURRENT (TENS OF Ma)	SERIES DESIGNATION	PIV (HUNDREDS OF VOLTS)
20 mA to 1 amp	L	1500 to 30,000 volts

25

L

15

First number represents current in tens of milliamps, second is the series designation, third PIV in hundreds of volts. 25 L 15, for example, signifies 250 mA, series L, and 1500 volts PIV.

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