

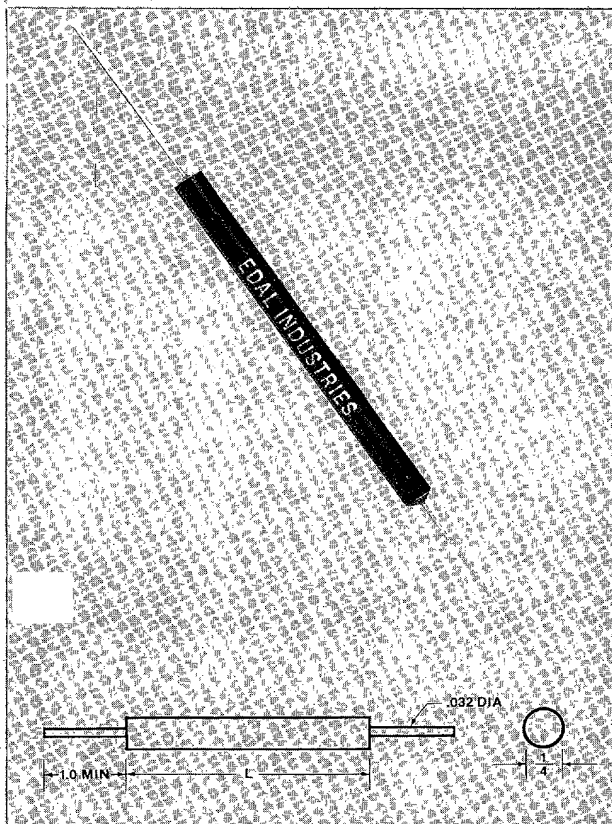
EDAL

SERIES

B

412

MINIATURE HIGH VOLTAGE SILICON RECTIFIERS



□ Smaller in size than other high voltage rectifiers, compact tubular construction and flexible leads facilitate circuit mounting and provide excellent thermal conductivity. These units are ideally suited for commercial and industrial applications including high voltage power supplies, electrostatic applications, cathode ray tubes, oscilloscopes, TV, display, X-ray and laser. Diodes used consist of double diffused junctions, bonded, selected and pre-tested for uniform electrical characteristics. Compact, rugged, tubular construction eliminates sharp edges to reduce corona common to rectangular packages.

Series B412 units meet moisture resistance requirements of MIL Standard 202A, Method 106. A varied operating range is available from 5,000 volts to 50,000 volts PIV, 5ma to 25 ma. Available in both standard and fast recovery series.

STANDARD SERIES

EDAL P/N* AVG. FWD CURRENT I _o AT 55°C			PEAK INVERSE VOLTAGE (VOLTS)	MAX. FWD VOLTAGE DROP AT 25°C & I _o (VOLTS)	L (INCHES)
5 ma	10 ma	25 ma			
B412-5-5	B412-5-10	B412-5-25	5,000	12	1.0
B412-7-5	B412-7-10	B412-7-25	7,000	12	1.0
B412-10-5	B412-10-10	B412-10-25	10,000	18	1.0
B412-12-5	B412-12-10	B412-12-25	12,000	18	1.0
B412-15-5	B412-15-10	B412-15-25	15,000	35	2.0
B412-20-5	B412-20-10	B412-20-25	20,000	35	2.0
B412-25-5	B412-25-10	B412-25-25	25,000	35	2.0
B412-30-5	B412-30-10	B412-30-25	30,000	50	3.0
B412-40-5	B412-40-10	B412-40-25	40,000	50	3.0
B412-50-5	B412-50-10	B412-50-25	50,000	70	5.0

FAST RECOVERY SERIES

EDAL P/N* AVG. FWD CURRENT I _o AT 40°C			PEAK INVERSE VOLTAGE (VOLTS)	MAX. FWD VOLTAGE DROP AT 25°C & I _o (VOLTS)	L (INCHES)
5 ma	10 ma	25 ma			
BR412-5-5	BR412-5-10	BR412-5-25	5,000	15	1.0
BR412-7-5	BR412-7-10	BR412-7-25	7,000	15	1.0
BR412-10-5	BR412-10-10	BR412-10-25	10,000	30	1.0
BR412-12-5	BR412-12-10	BR412-12-25	12,000	30	1.0
BR412-15-5	BR412-15-10	BR412-15-25	15,000	60	2.0
BR412-20-5	BR412-20-10	BR412-20-25	20,000	60	2.0
BR412-25-5	BR412-25-10	BR412-25-25	25,000	60	2.0
BR412-30-5	BR412-30-10	BR412-30-25	30,000	90	3.0
BR412-40-5	BR412-40-10	BR412-40-25	40,000	90	3.0
BR412-50-5	BR412-50-10	BR412-50-25	50,000	120	5.0

*Standard product lines are also available in 50 ma and 100 ma ratings. Other values available upon request.

Performance Curves on Reverse Side

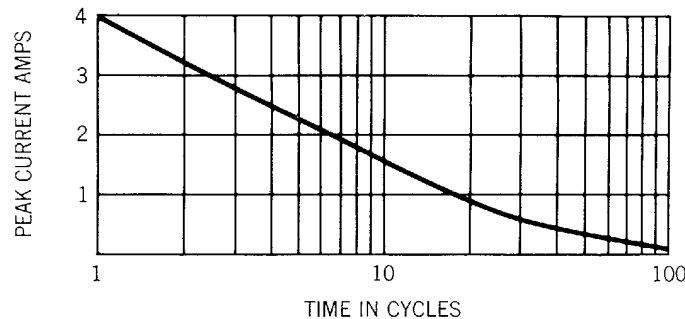
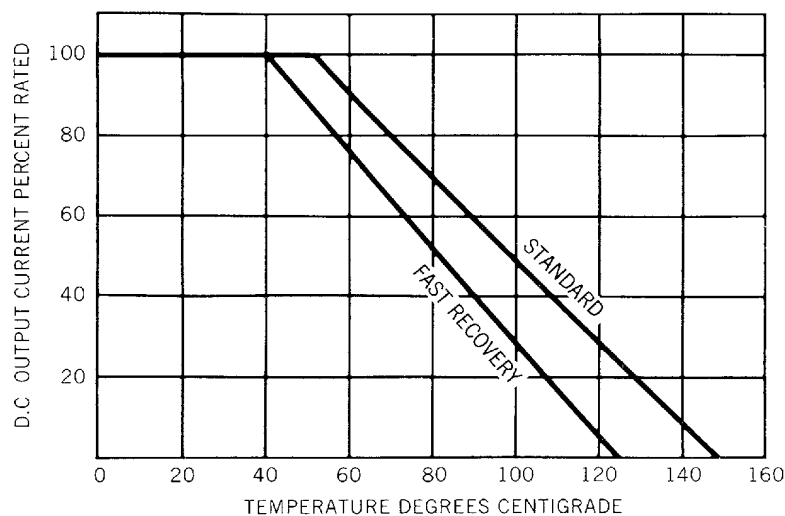
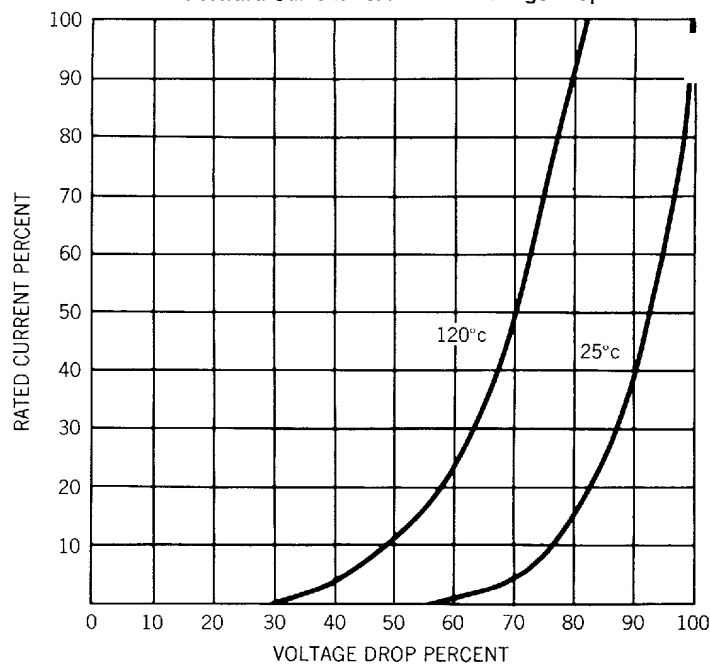
ELECTRICAL RATINGS**Maximum Allowable One Cycle Surge Current**

(60 Hz single phase non-recurrent,
at rated PRV and no load) 4 amps

Maximum Reverse Current at PIV

25°C 1 μ A*
100°C 40 μ A*

*fast recovery series 2 μ A and 100 μ A. Maximum reverse recovery time t_{rr} @ $I_f = 2$ mA and $I_r = 4$ mA. Recovery to 1.0 mA $\rightarrow$ 250 nanoseconds.

SURGE CURRENT RATING**Current Vs. Temperature****Forward Current Vs. Forward Voltage Drop**

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