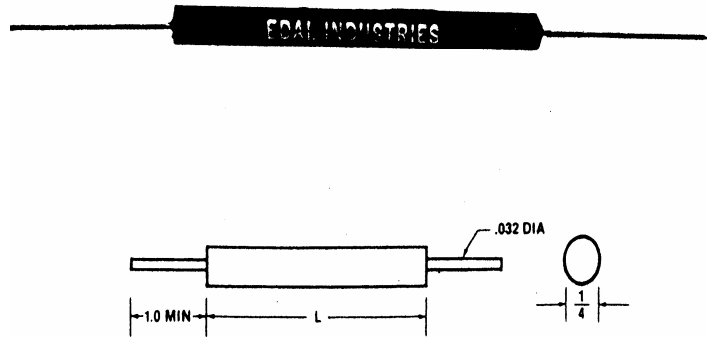


Miniature High Voltage Silicon Rectifiers

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 25mA and available in both standard and fast recovery series.

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 ua *
100 °C	40 ua *
*fast recovery series 2 ua and 100 ua. Maximum reverse recovery time trr @ If =2 ma and Ir = 4 ma. Recovery to 1.0 ma – 250 nanoseconds	



Standard Series

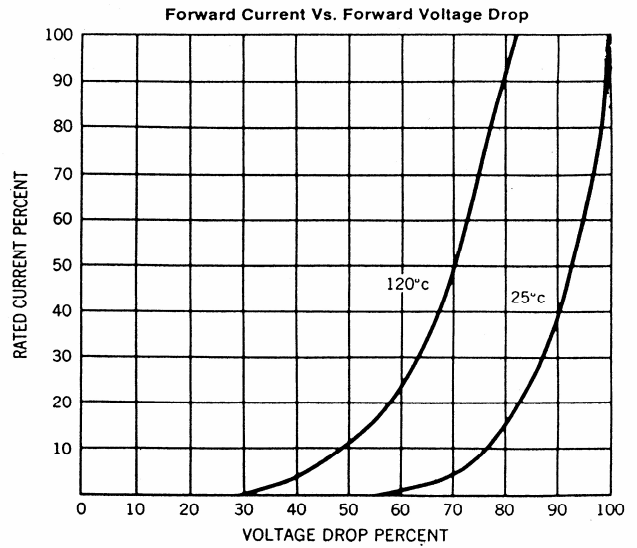
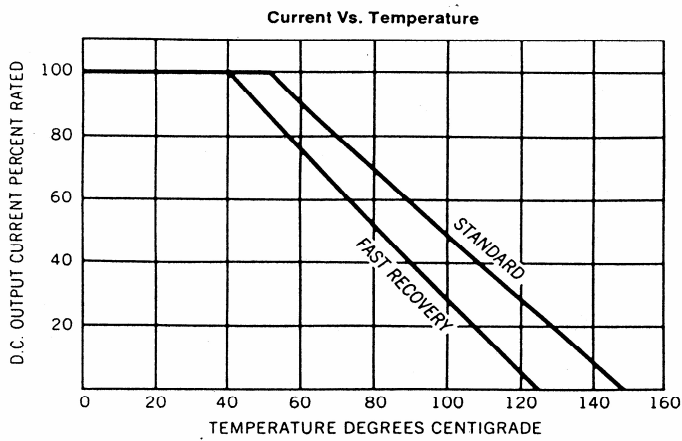
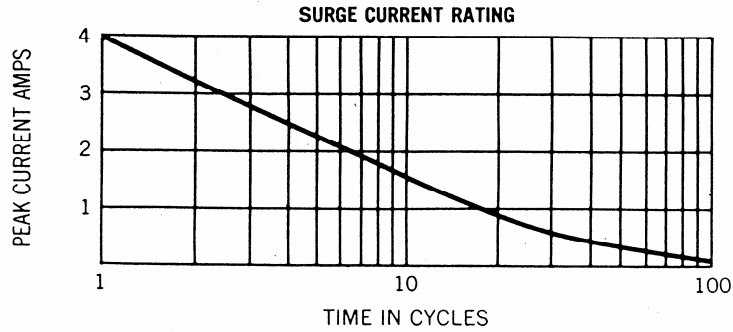
Fast Recovery Series

EDAL P/N* AVG. FWD CURRENT I ₀ AT 55°C			PIV VOLTS	MAX. FWD VOLTAGE DROP AT 25°C & I ₀ VOLTS	L IN.	EDAL P/N* AVG. FWD CURRENT I ₀ AT 55°C			PIV VOLTS	MAX. FWD VOLTAGE DROP AT 25°C & I ₀ VOLTS	L IN.
5 ma	10 ma	25ma				5 ma	10 ma	25 ma			
B412-5-5	B412-5-10	B412-5-25	5000	12	1.0	BR412-5-5	BR412-5-10	BR412-5-25	5000	15	1.0
B412-7-5	B412-7-10	B412-7-25	7000	12	1.0	BR412-7-5	BR412-7-10	BR412-7-25	7000	15	1.0
B412-10-5	B412-10-10	B412-10-25	10000	18	1.0	BR412-10-5	BR412-10-10	BR412-10-25	10000	30	1.0
B412-12-5	B412-12-10	B412-12-25	12000	18	1.0	BR412-12-5	BR412-12-10	BR412-12-25	12000	30	1.0
B412-15-5	B412-15-10	B412-15-25	15000	35	2.0	BR412-15-5	BR412-15-10	BR412-15-25	15000	60	2.0
B412-20-5	B412-20-10	B412-20-25	20000	35	2.0	BR412-20-5	BR412-20-10	BR412-20-25	20000	60	2.0
B412-25-5	B412-25-10	B412-25-25	25000	35	2.0	BR412-25-5	BR412-25-10	BR412-25-25	25000	60	2.0
B412-30-5	B412-30-10	B412-30-25	30000	50	3.0	BR412-30-5	BR412-30-10	BR412-30-25	30000	90	3.0
B412-40-5	B412-40-10	B412-40-25	40000	50	3.0	BR412-40-5	BR412-40-10	BR412-40-25	40000	90	3.0
B412-50-5	B412-50-10	B412-50-25	50000	70	5.0	BR412-50-5	BR412-50-10	BR412-50-25	50000	120	5.0

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

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