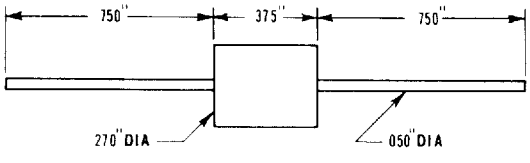
EDAL

SERIES **M**

MEDIUM CURRENT SILICON RECTIFIERS





Series M silicon rectifiers meet moisture resistance of MIL Standard 202A, Method 106 without the costly insulation required by glass-to-metal seal types. Offering reduced assembly costs, this rugged design replaces many stud-mount types. The compact tubular construction and flexible leads facilitating point-to-point circuit soldering and providing excellent thermal conductivity. Edal medium current silicon rectifiers offer stable uniform electrical characteristics by utilizing a passivated double diffused junction technique. Standard and bulk avalanche types in voltage ratings from 50 to 1500 volts PIV. Currents range from 1.5 to 6.0 amps. Also available in fast recovery.

M4 Electrical Ratings

Maximum Allowable DC Output Current:*
at 25°C ambient temperature 3.0 amps
at 100°C ambient temperature 2.2 amps
at 150°C ambient temperature 5 amps

Maximum Allowable One Cycle Surge Current:
(60 Hz single phase non-recurrent, at rated PRV and no load) 250 amps

Maximum Full Load Forward Voltage Drop
Peak at 50°C 1.0 volt

Maximum Reverse Current
Peak at 25°C 10 μA

Storage Temperature −65°C to 185°C

Ambient Operating Temperature −65°C to 175°C

*Rating can be increased to 6 amps by utilizing heat sink measuring 3" x 3" x 1/16"

CODE	FORWARD CURRENT (AMPS)
1	1.5
2	2.0
3	2.5
4	3.0
5	5.0
7	6.0

CODE	(VOLTS)
A	50
B	100
C	200
D	300
E	400
F	500
G	600
H	700
K	800
M	1000
N	1200
P	1500

CODE	REVERSE CURRENT (μA)
1	2
5	10
9	Bulk Avalanche

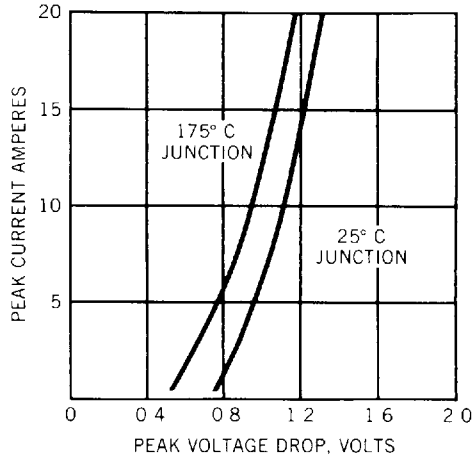
* at 25°C ambient temperature

M 4 B 5

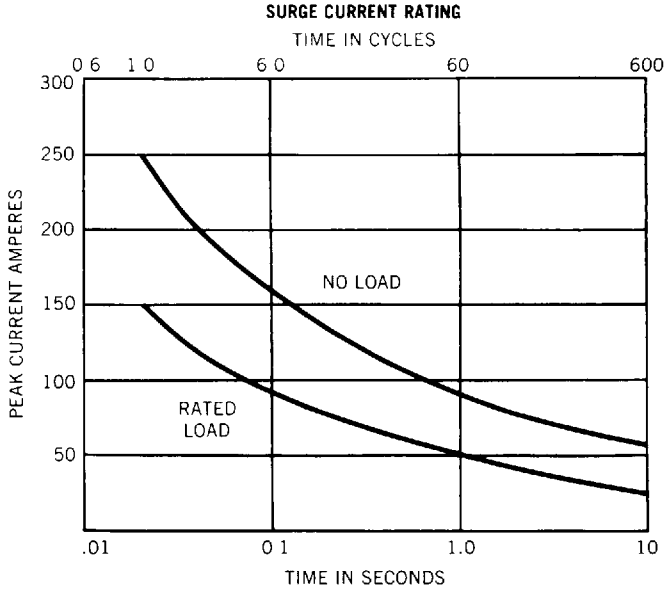
First code represents series, second is forward current, third reverse volts, fourth reverse current. Series M 4 B 5 for example is 3 amps, 100 PIV, 10 μA

PERFORMANCE CURVES ON REVERSE SIDE

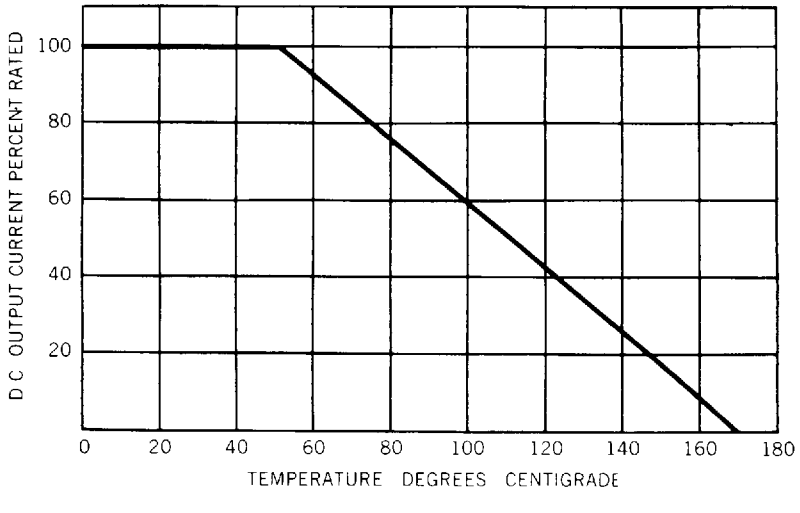
PEAK FORWARD CURRENT VS PEAK FORWARD VOLTAGE DROP



SURGE CURRENT RATING



CURRENT VS. TEMPERATURE



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