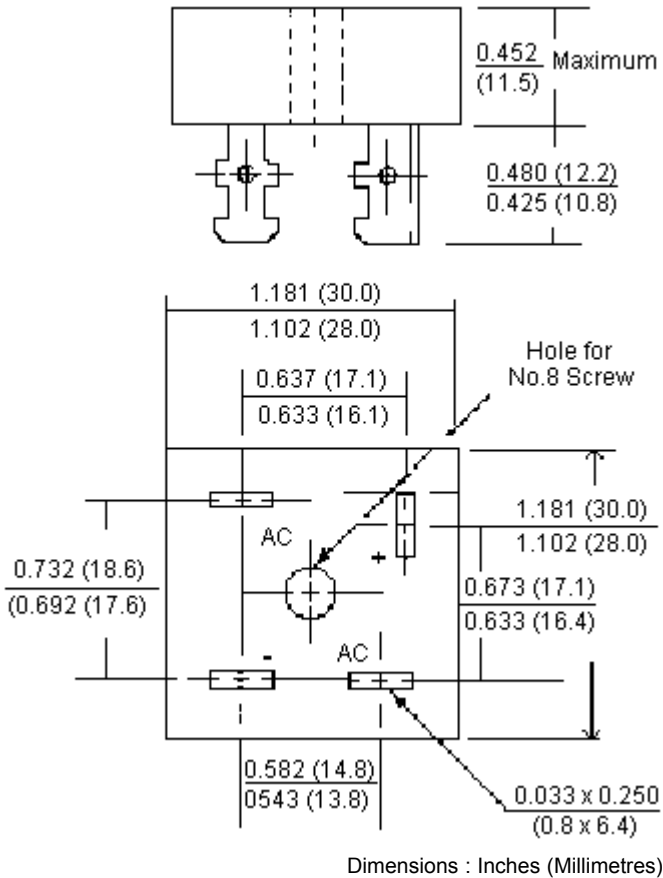


# High Current Silicon Bridge Rectifier



## Features:

- Electrically isolated metal case for maximum heat dissipation.
- Surge overload ratings to 400 amperes.



## Mechanical Data:

Case	: Metal, electrically isolated.
Terminals	: Plated 0.25 inches Faston or wire lead $\leq 40$ mils.
Weight	: 1 ounce, 30 grams.
Mounting position	: Any.

# High Current Silicon Bridge Rectifier



## Maximum Ratings and Electrical Characteristics:

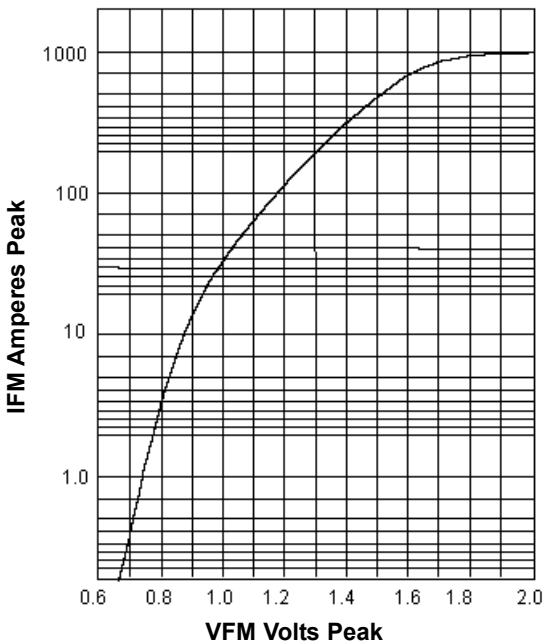
Rating at 25°C ambient temperature unless otherwise specified.  
 Single phase, half wave, 60Hz, resistive or inductive load.  
 For capacitive load, derate current by 20%.

	-010	Units
Maximum recurrent peak reverse voltage	1000	V
Maximum RMS input voltage	800	V
Maximum DC blocking voltage	1000	V
Maximum average forward current* for resistive load at TC = 55°C	15	A
Non-repetitive peak forward surge current at rated load	300	A
Maximum forward voltage per bridge element at specified current (IF = 7.5A)	1.2	V
Maximum reverse leakage current at rated DC blocking voltage	10	μA
I <sup>2</sup> t rating for fusing (t < 8.3ms)	374	A <sup>2</sup> s
Typical thermal resistance RθJC	2.5	°C/W
Operating temperature range TJ Storage temperature range TSTG	-55 to +150	°C

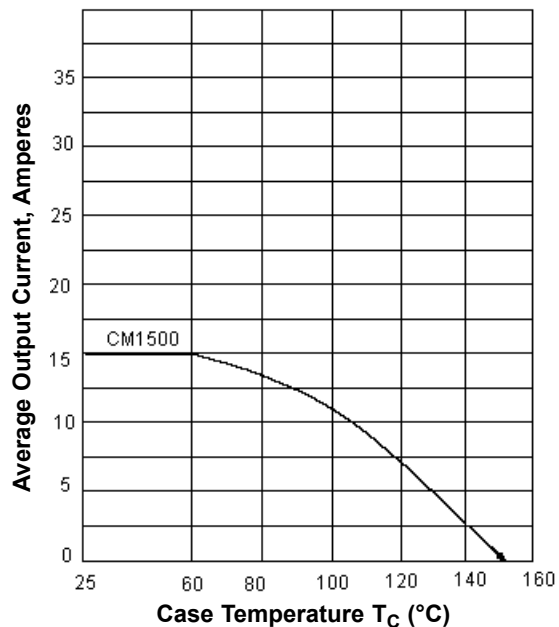
\* Unit mounted on metal heat-sink

## Ratings and Characteristics Curves:

Typical Instantaneous Forward  
 Characteristics at TJ = 25°C



Output Current VS. Case Temperature  
 Resistive or Inductive Load TJ = 150°C

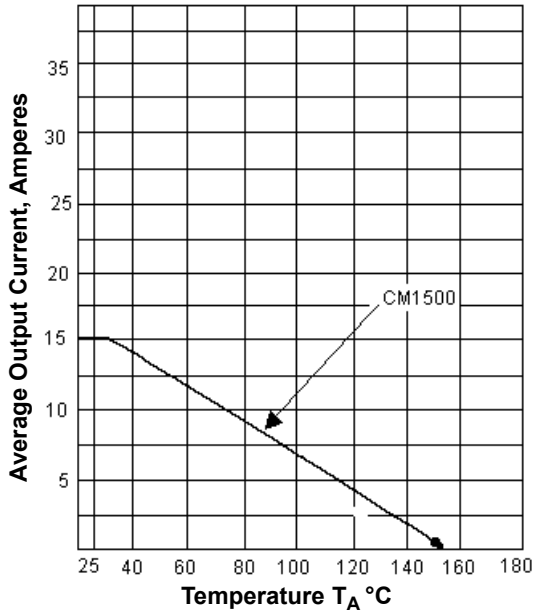


# High Current Silicon Bridge Rectifier

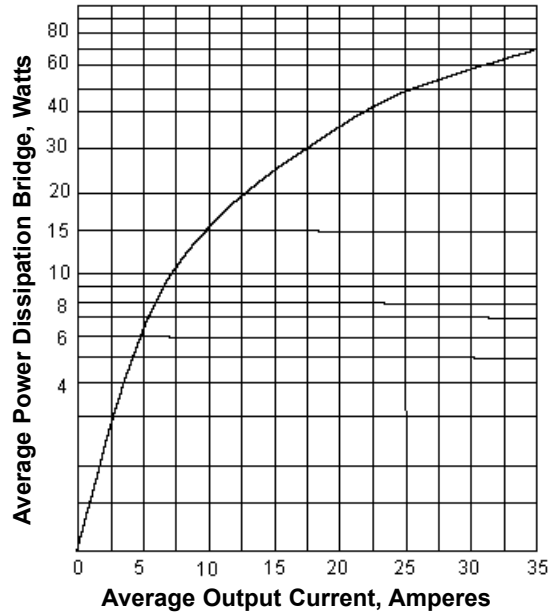


## Ratings and Characteristics Curves:

Output Current VS. Ambient Temperature  
Resistive or Inductive Load Bridge  
Mounted on a 8 Inches x 8 Inches  
Aluminium Plate 25 Inches Thick



Power Dissipation VS. Average Output  
Current Resistive or Inductive load,  
T<sub>J</sub> = 150°C



## Part Number Table

Description	Part Number
Bridge Rectifier, 15A, 1000V	CM15010

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