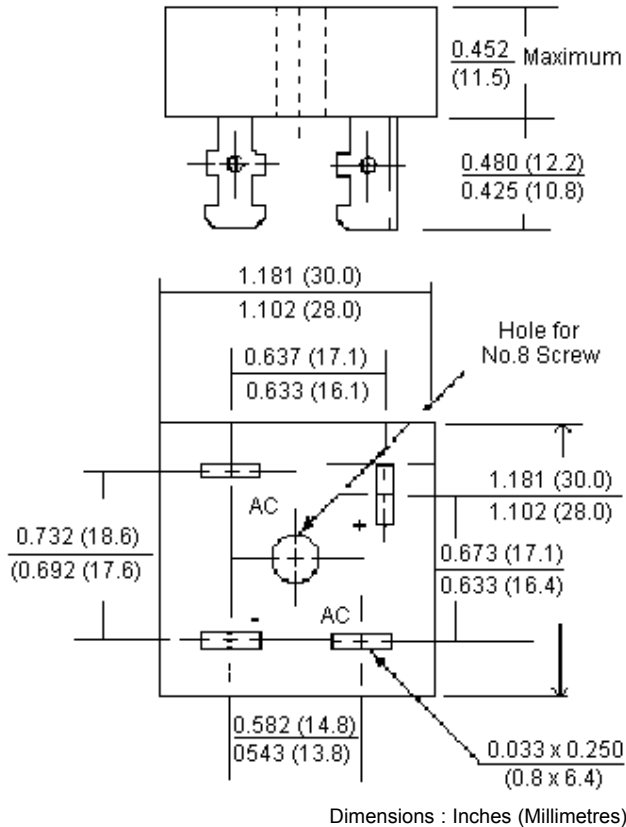


High Current Silicon Bridge Rectifier



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 ≤ 40 mils.
Weight	: 1 ounce, 30 grams.
Mounting position	: Any.

High Current Silicon Bridge Rectifier



Maximum Ratings and Electrical Characteristics:

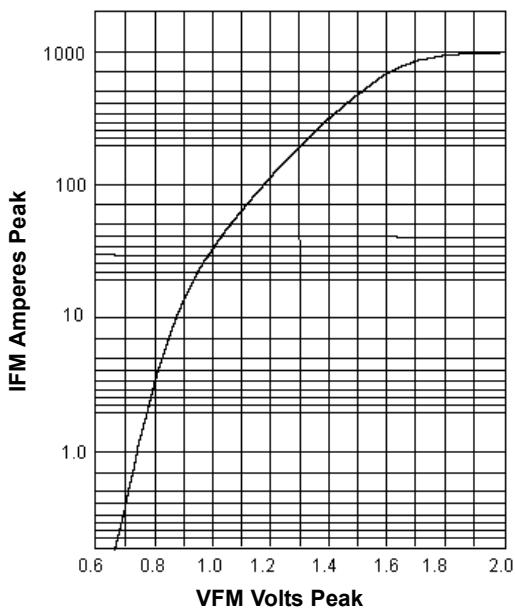
Rating at 25°C ambient temperature unless otherwise specified.
 Single phase, half wave, 60Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

	-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	CM15 15	A
Non-repetitive peak forward surge current at rated load	CM15 300	A
Maximum forward voltage per bridge element at specified current (I _F = 7.5A)	CM15 1.2	V
Maximum reverse leakage current at rated DC blocking voltage	10	μA
I ² t rating for fusing (t <8.3ms)	CM15 374	A ² s
Typical thermal resistance RθJC	2.5	°C/W
Operating temperature range T _J Storage temperature range T _{STG}	-55 to +150	°C

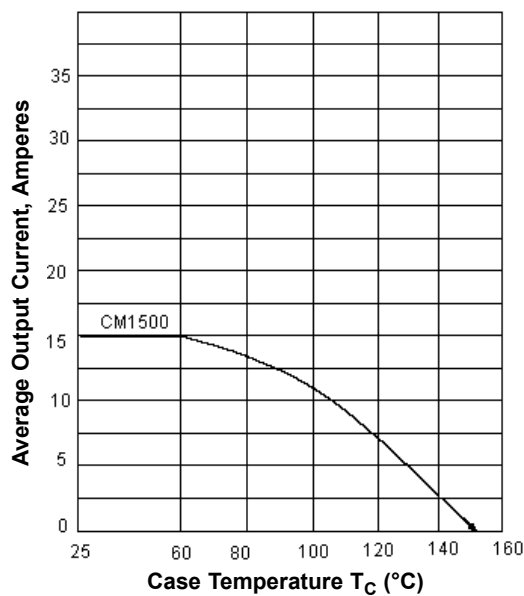
* Unit mounted on metal heat-sink

Ratings and Characteristics Curves:

Typical Instantaneous Forward
Characteristics at T_J = 25°C



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

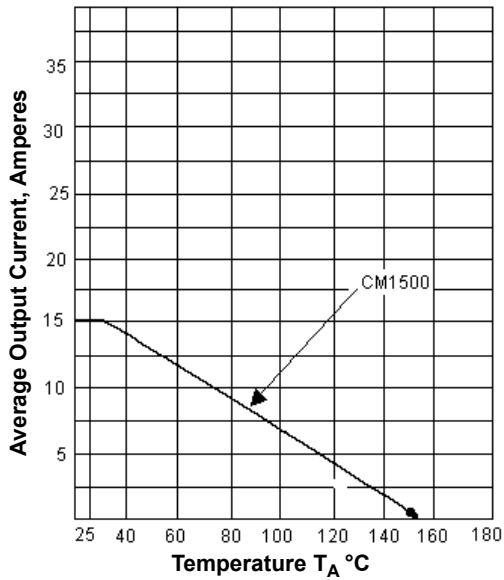


High Current Silicon Bridge Rectifier

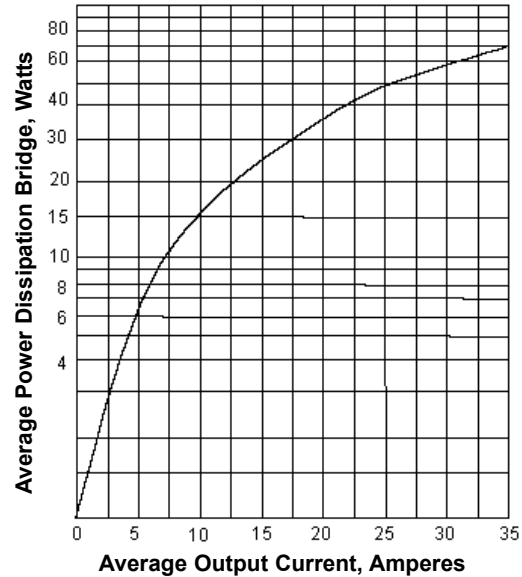


Ratings and Characteristics Curves:

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_J = 150°C



Part Number Table

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

Disclaimer This data sheet and its contents (the "Information") belong to the Premier Farnell Group (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. SPC Multicom is the registered trademark of the Group. © Premier Farnell plc 2009.

<http://www.farnell.com>
<http://www.newark.com>
<http://www.cpc.co.uk>

