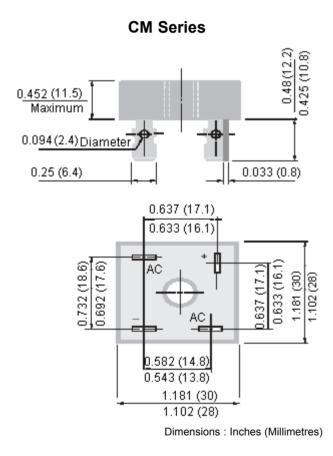
Single Phase Bridge Rectifiers CM2500 Series

multicomp



Features:

- Metal case for maximum heat dissipation
- Surge overload ratings to 400 amperes



Mechanical Data

Case	: Metal
Mounting Position	: Any

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Single Phase Bridge Rectifiers CM2500 Series

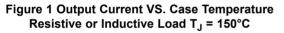
Maximum Ratings and Electrical Characteristics

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

Parameter	CM2501	CM2502	CM2504	CM2506	CM2508	CM25010	Unit
Maximum Recurrent Peak Reverse Voltage	100	200	400	600	800	1,000	
Maximum RMS Bridge Input Voltage	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	100	200	400	600	800	1,000	
Maximum Average Forward Current at $T_A = 55^{\circ}C$	25						
Non-repetitive Peak Forward Surge Current, Rated Load	300						A
Maximum Forward Voltage Per Bridge Element Specified Current at 12.5 A	1.2					V	
Maximum Reverse Current at Rated DC Blocking Voltage Per Element	10					μA	
I ² t Rating for Fusing (t <8.35 ms)	374					A ² S	
Typical Thermal Resistance (Figure 3) RθJC	2.5					°C / W	
Operating Temperature Range T _J	-55 to +150						
Storage Temperature Range T _A						°C	

Note : * Unit mounted on metal heat-sink

Rating and Characteristic Curves



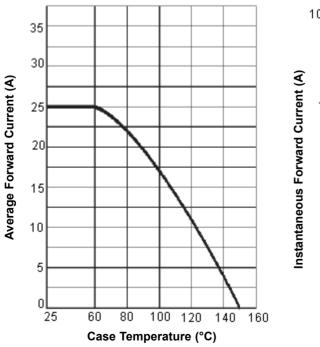
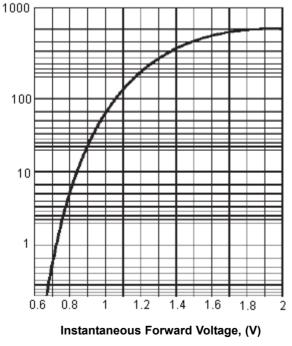


Figure 2 Typical Instantaneous Forward Characteristics at $T_J = 25^{\circ}C$





Single Phase Bridge Rectifiers multicomp **CM2500** Series

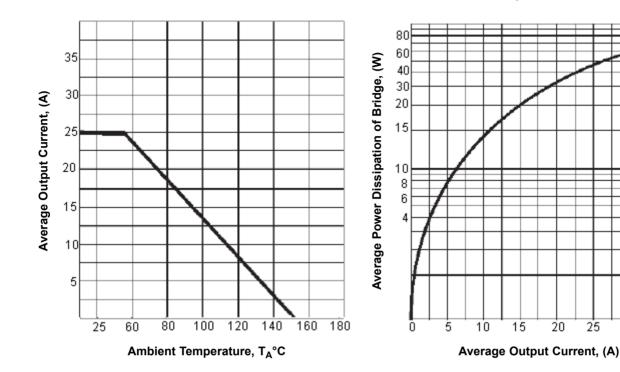
Figure 3 Output Current VS. Ambient Temperature **Resistive or Inductive Load Bridge Mounted on** 8 × 8 Inches Aluminium Plate 25 Inches Thick

Figure 4 Power Dissipation VS. Average **Output Current Resistive or Inductive Load** T_J = 150°C

25

30

35



Specification Table

Current Rating (A)	VRRM (V)	Maximum AC Input Voltage (V)	Part Number
25	100	70	CM2501
	200	140	CM2502
	400	280	CM2504
	600	420	CM2506
	800	500	CM2508
	1,000	800	CM25010

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