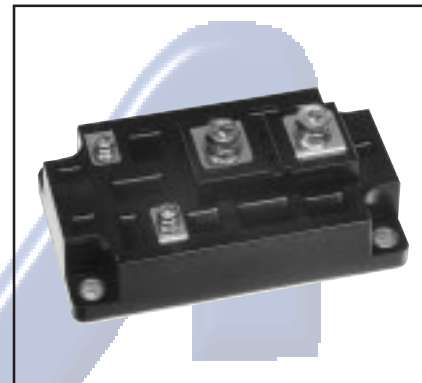
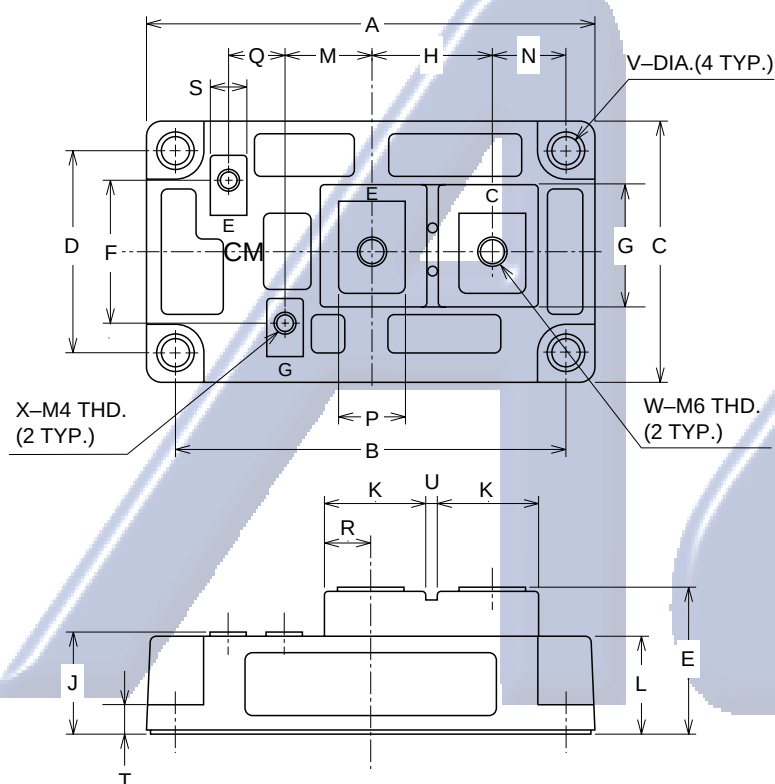


# MITSUBISHI IGBT MODULES

## CM300HA-12H

HIGH POWER SWITCHING USE  
INSULATED TYPE



### Description:

Mitsubishi IGBT Modules are designed for use in switching applications. Each module consists of one IGBT in a single configuration with a reverse-connected super-fast recovery free-wheel diode. All components and interconnects are isolated from the heat sinking baseplate, offering simplified system assembly and thermal management.

### Features:

- ☐ Low Drive Power
- ☐ Low  $V_{CE(sat)}$
- ☐ Discrete Super-Fast Recovery Free-Wheel Diode
- ☐ High Frequency Operation
- ☐ Isolated Baseplate for Easy Heat Sinking

### Applications:

- ☐ AC Motor Control
- ☐ Motion/Servo Control
- ☐ UPS
- ☐ Welding Power Supplies

### Ordering Information:

Example: Select the complete part module number you desire from the table below -i.e. CM300HA-12H is a 600V ( $V_{CES}$ ), 300 Ampere Single IGBT Module.

| Type | Current Rating<br>Amperes | $V_{CES}$<br>Volts (x 50) |
|------|---------------------------|---------------------------|
| CM   | 300                       | 12                        |

Outline Drawing and Circuit Diagram

| Dimensions | Inches     | Millimeters |
|------------|------------|-------------|
| A          | 4.21       | 107.0       |
| B          | 3.661±0.01 | 93.0±0.25   |
| C          | 2.44       | 62.0        |
| D          | 1.89±0.01  | 48.0±0.25   |
| E          | 1.42 Max.  | 36.0 Max.   |
| F          | 1.34       | 34.0        |
| G          | 1.18       | 30.0        |
| H          | 1.14       | 29.0        |
| J          | 0.98 Max.  | 25.0 Max.   |
| K          | 0.94       | 24.0        |
| L          | 0.93       | 23.5        |

| Dimensions | Inches    | Millimeters |
|------------|-----------|-------------|
| M          | 0.83      | 21.0        |
| N          | 0.69      | 17.5        |
| P          | 0.63      | 16.0        |
| Q          | 0.51      | 13.0        |
| R          | 0.43      | 11.0        |
| S          | 0.35      | 9.0         |
| T          | 0.28      | 7.0         |
| U          | 0.12      | 3.0         |
| V          | 0.26 Dia. | Dia. 6.5    |
| W          | M6 Metric | M6          |
| X          | M4 Metric | M4          |