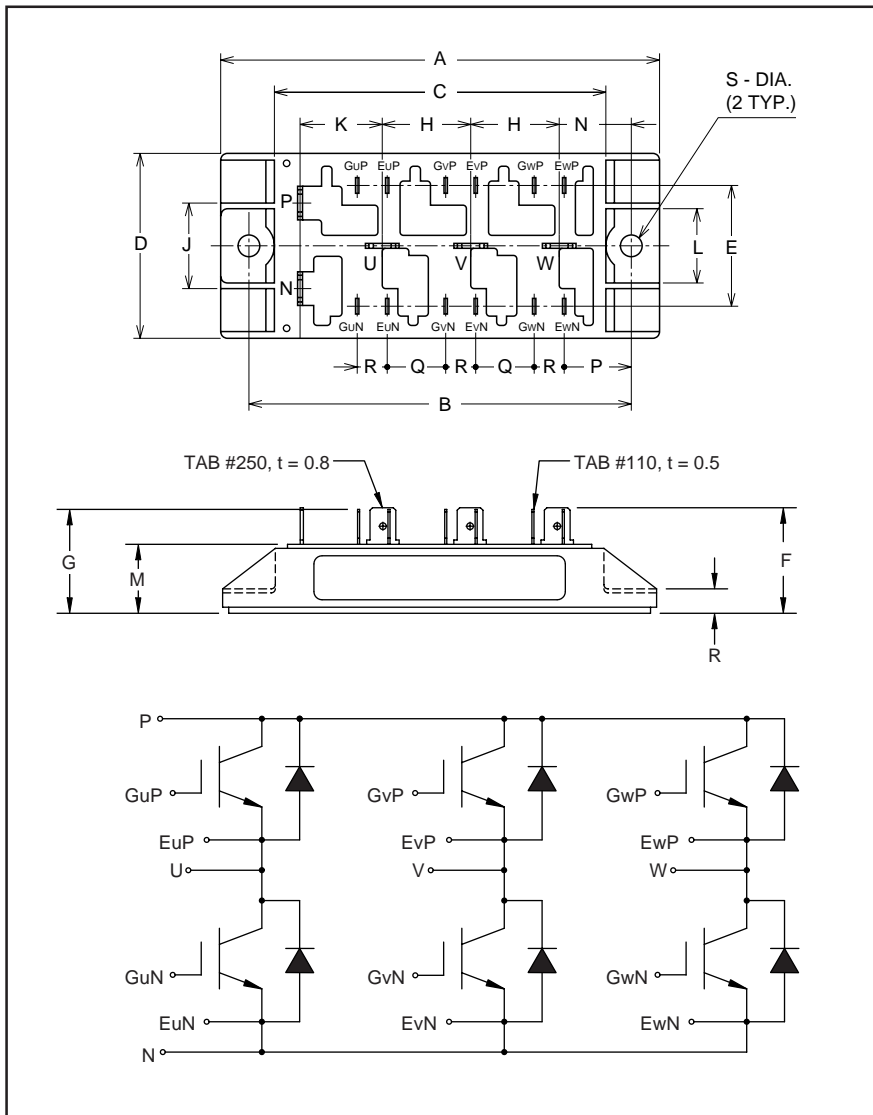


MITSUBISHI IGBT MODULES

CM30TF-12H

MEDIUM POWER SWITCHING USE
INSULATED TYPE



Description:

Mitsubishi IGBT Modules are designed for use in switching applications. Each module consists of six IGBTs in a three phase bridge configuration, with each transistor having 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. CM30TF-12H is a 600V (V_{CES}), 30 Ampere Six-IGBT Module.

Type	Current Rating Amperes (30)	V_{CES} Volts (x 50)
CM	30	12

Outline Drawing and Circuit Diagram

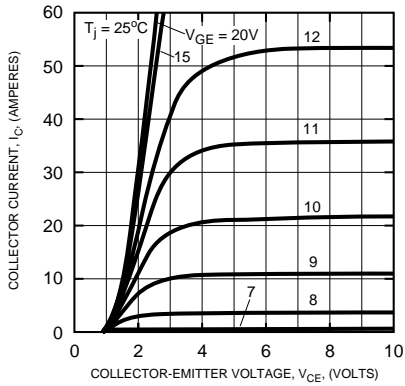
Dimensions	Inches	Millimeters
A	4.21	107.0
B	3.66±0.01	93.0±0.2
C	3.19	81.0
D	1.77	45.0
E	1.18	30.0
F	1.11	28.2
G	1.05	26.6
H	0.85	21.5
J	0.83	21.0

Dimensions	Inches	Millimeters
K	0.79	20.0
L	0.71	18.0
M	0.69	17.5
N	0.69	17.5
P	0.63	16.0
Q	0.55	14.0
R	0.30	7.5
S	0.22 Dia.	Dia. 5.5

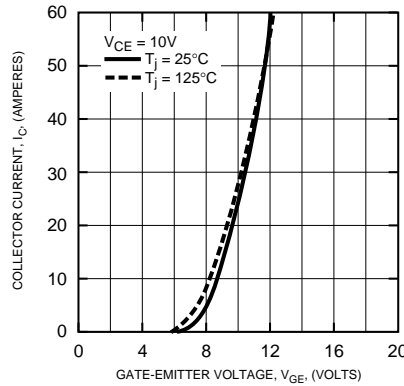
CM30TF-12H

MEDIUM POWER SWITCHING USE
INSULATED TYPE

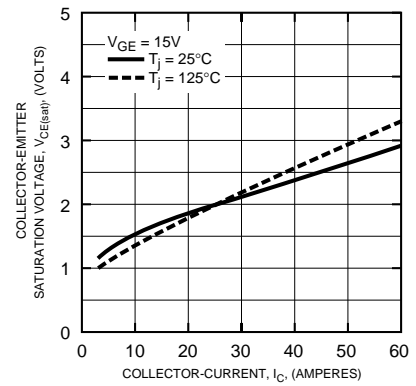
OUTPUT CHARACTERISTICS (TYPICAL)



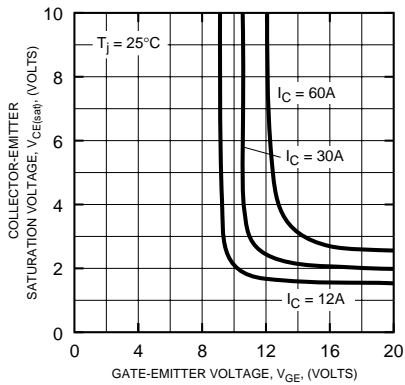
TRANSFER CHARACTERISTICS (TYPICAL)



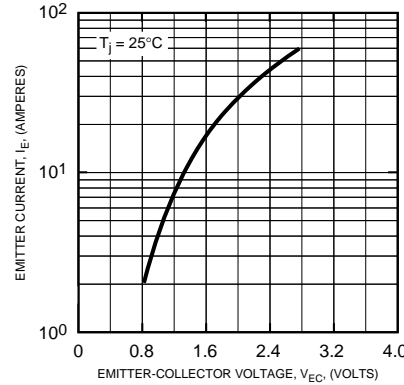
COLLECTOR-EMITTER SATURATION VOLTAGE CHARACTERISTICS (TYPICAL)



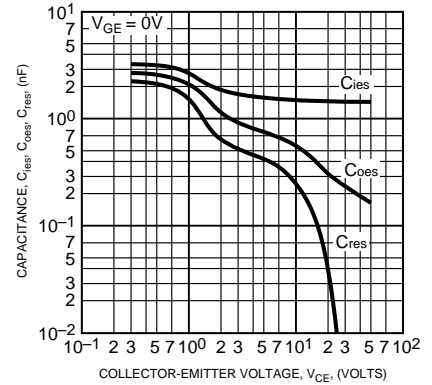
COLLECTOR-EMITTER SATURATION VOLTAGE CHARACTERISTICS (TYPICAL)



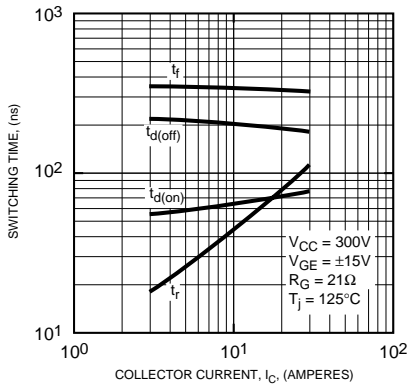
FREE-WHEEL DIODE FORWARD CHARACTERISTICS (TYPICAL)



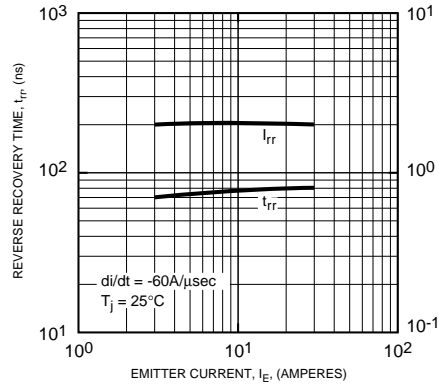
CAPACITANCE VS. V_{CE} (TYPICAL)



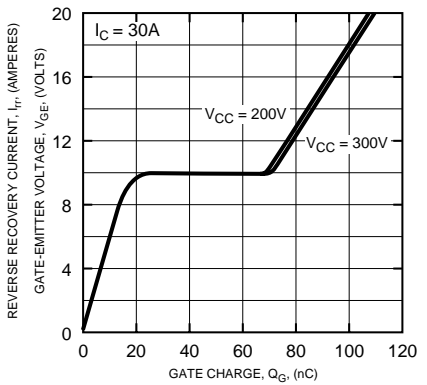
HALF-BRIDGE SWITCHING CHARACTERISTICS (TYPICAL)



REVERSE RECOVERY CHARACTERISTICS (TYPICAL)



GATE CHARGE, V_{GE}



CM30TF-12H

MEDIUM POWER SWITCHING USE
INSULATED TYPE

