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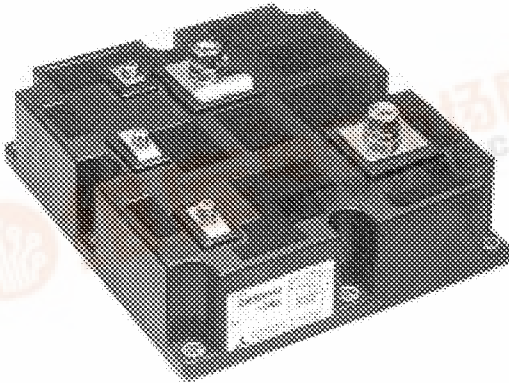
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MITSUBISHI TRANSISTOR MODULES

QM800HA-24B

HIGH POWER SWITCHING USE
INSULATED TYPE

QM800HA-24B



- **I_C** Collector current **800A**
- **V_{CEX}** Collector-emitter voltage **1200V**
- **h_{FE}** DC current gain **750**
- **Insulated Type**
- **UL Recognized**

Yellow Card No. E80276 (N)

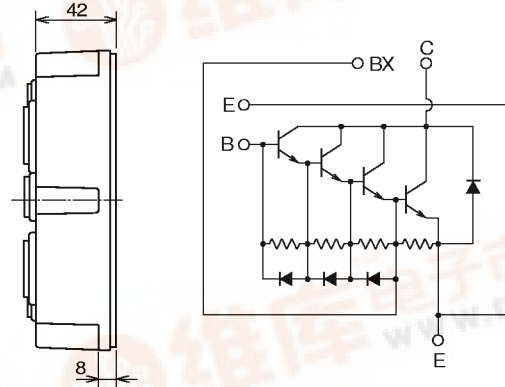
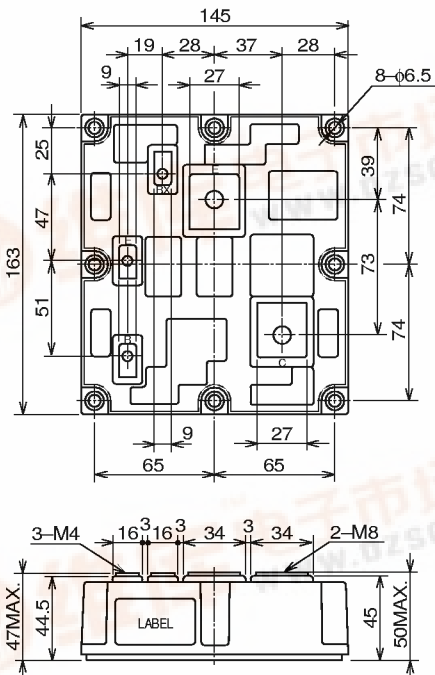
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APPLICATION

AC motor controllers, UPS, CVCF, DC motor controllers, NC equipment, Welders

OUTLINE DRAWING & CIRCUIT DIAGRAM

Dimensions in mm



MITSUBISHI TRANSISTOR MODULES

QM800HA-24B

**HIGH POWER SWITCHING USE
INSULATED TYPE**

ABSOLUTE MAXIMUM RATINGS (T_J=25°C, unless otherwise noted)

Symbol	Parameter	Conditions	Ratings	Unit
V _{CEX(SUS)}	Collector-emitter voltage	I _C =1A, V _{EB} =2V	1200	V
V _{CEX}	Collector-emitter voltage	V _{EB} =2V	1200	V
V _{CB0}	Collector-base voltage	Emitter open	1200	V
V _{EB0}	Emitter-base voltage	Collector open	7	V
I _C	Collector current	DC	800	A
-I _C	Collector reverse current	DC (forward diode current)	800	A
P _C	Collector dissipation	T _C =25°C	5300	W
I _B	Base current	DC	40	A
-I _{CSM}	Surge collector reverse current (forward diode current)	Peak value of one cycle of 60Hz (half wave)	8000	A
T _J	Junction temperature		-40~+150	°C
T _{stg}	Storage temperature		-40~+125	°C
V _{iso}	Isolation voltage	Charged part to case, AC for 1 minute	2500	V
—	Mounting torque	Main terminal screw M8	8.83~10.8	N·m
		Mounting screw M6	90~110	kg·cm
			1.96~2.94	N·m
		B(E) terminal screw M4	20~30	kg·cm
			0.98~1.47	N·m
		BX terminal screw M4	12~18	kg·cm
—	Weight	Typical value	0.98~1.47	N·m
			12~18	kg·cm
			2100	g

ELECTRICAL CHARACTERISTICS (T_J=25°C, unless otherwise noted)

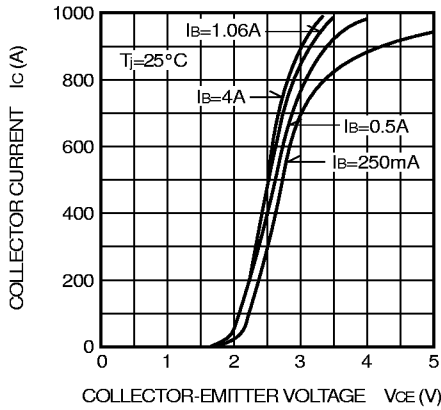
Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
I _{CEX}	Collector cutoff current	V _{CE} =1200V, V _{EB} =2V	—	—	8.0	mA
I _{CB0}	Collector cutoff current	V _{CB} =1200V, Emitter open	—	—	8.0	mA
I _{EB0}	Emitter cutoff current	V _{EB} =7V, Collector open	—	—	600	mA
V _{CE(sat)}	Collector-emitter saturation voltage	I _C =800A, I _B =1.06A	—	—	4.0	V
V _{BE(sat)}	Base-emitter saturation voltage		—	—	4.2	V
-V _{CEO}	Collector-emitter reverse voltage	I _C =-800A (diode forward voltage)	—	—	1.8	V
h _{FE}	DC current gain	I _C =800A, V _{CE} =4.0V	750	—	—	—
t _{on}	Switching time	V _{CC} =600V, I _C =800A, I _{B1} =1.6A, -I _{B2} =16A	—	—	2.5	μs
t _s			—	—	20	μs
t _f			—	—	5.0	μs
R _{th(j-c)Q}	Thermal resistance (junction to case)	Transistor part	—	—	0.023	°C/W
R _{th(j-c)R}		Diode part	—	—	0.12	°C/W
R _{th(c-f)}	Contact thermal resistance (case to fin)	Conductive grease applied	—	—	0.01	°C/W

QM800HA-24B

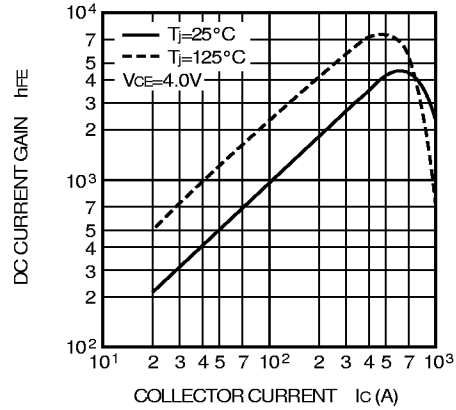
HIGH POWER SWITCHING USE
INSULATED TYPE

PERFORMANCE CURVES

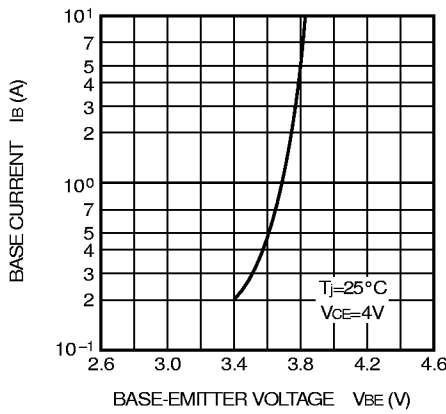
COMMON EMITTER OUTPUT CHARACTERISTICS (TYPICAL)



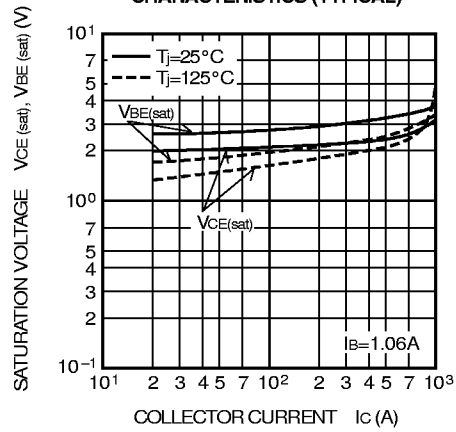
DC CURRENT GAIN VS. COLLECTOR CURRENT (TYPICAL)



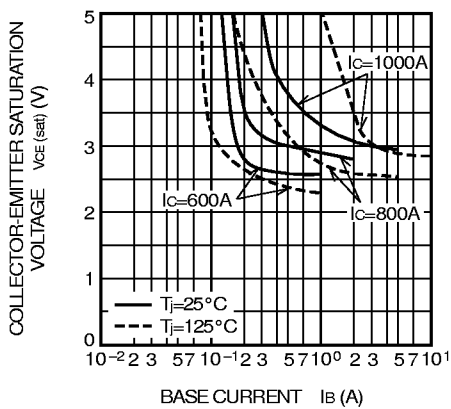
COMMON EMITTER INPUT CHARACTERISTIC (TYPICAL)



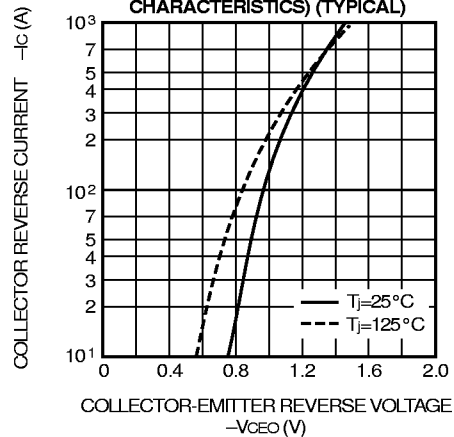
SATURATION VOLTAGE CHARACTERISTICS (TYPICAL)



COLLECTOR-EMITTER SATURATION VOLTAGE (TYPICAL)



REVERSE COLLECTOR CURRENT VS. COLLECTOR-EMITTER REVERSE VOLTAGE (DIODE FORWARD CHARACTERISTICS) (TYPICAL)



QM800HA-24B

HIGH POWER SWITCHING USE
INSULATED TYPE

REVERSE BIAS SAFE OPERATING AREA

