

[查询QM800HA-24B供应商](#)

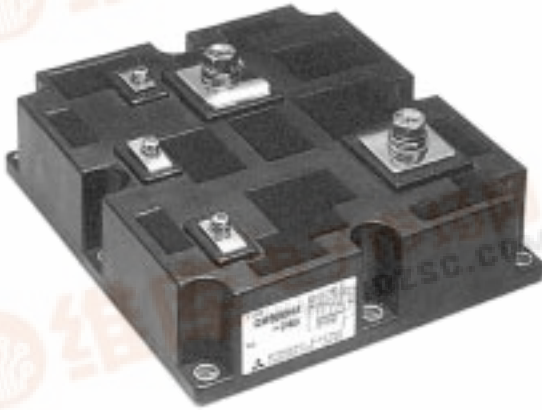
[捷多邦, 专业PCB打样工厂, 24小时加急出货](#)

MITSUBISHI TRANSISTOR MODULES

QM800HA-24B

HIGH POWER SWITCHING USE
INSULATED TYPE

QM800HA-24B



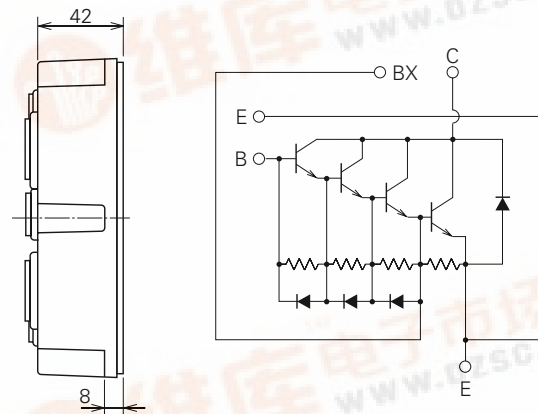
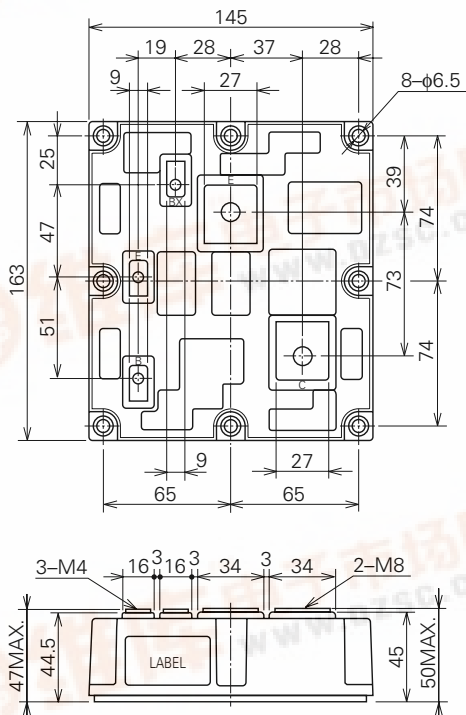
- **I_c** Collector current **800A**
- **V_{CEX}** Collector-emitter voltage **1200V**
- **h_{FE}** DC current gain **750**
- **Insulated Type**
- **UL Recognized**
Yellow Card No. E80276 (N)
File No. E80271

APPLICATION

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

OUTLINE DRAWING & CIRCUIT DIAGRAM

Dimensions in mm



QM800HA-24B

**HIGH POWER SWITCHING USE
INSULATED TYPE**

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

Symbol	Parameter	Conditions	Ratings	Unit
VCEX (SUS)	Collector-emitter voltage	Ic=1A, VEB=2V	1200	V
VCEX	Collector-emitter voltage	VEB=2V	1200	V
VCBO	Collector-base voltage	Emitter open	1200	V
VEBO	Emitter-base voltage	Collector open	7	V
Ic	Collector current	DC	800	A
-Ic	Collector reverse current	DC (forward diode current)	800	A
PC	Collector dissipation	Tc=25°C	5300	W
Ib	Base current	DC	40	A
-IcSM	Surge collector reverse current (forward diode current)	Peak value of one cycle of 60Hz (half wave)	8000	A
Tj	Junction temperature		-40~+150	°C
Tstg	Storage temperature		-40~+125	°C
Viso	Isolation voltage	Charged part to case, AC for 1 minute	2500	V
—	Mounting torque	Main terminal screw M8	8.83~10.8	N·m
			90~110	kg·cm
		Mounting screw M6	1.96~2.94	N·m
			20~30	kg·cm
		B(E) terminal screw M4	0.98~1.47	N·m
			12~18	kg·cm
BX terminal screw M4	0.98~1.47	N·m		
	12~18	kg·cm		
—	Weight	Typical value	2100	g

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

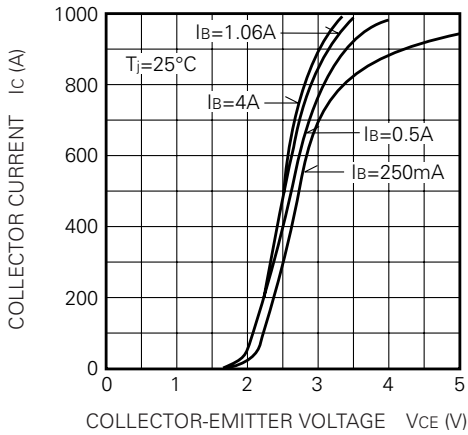
Symbol	Parameter	Test conditions	Limits			Unit
			Min.	Typ.	Max.	
ICEX	Collector cutoff current	VCE=1200V, VEB=2V	—	—	8.0	mA
ICBO	Collector cutoff current	VCB=1200V, Emitter open	—	—	8.0	mA
IEBO	Emitter cutoff current	VEB=7V, Collector open	—	—	600	mA
VCE (sat)	Collector-emitter saturation voltage	Ic=800A, Ib=1.06A	—	—	4.0	V
VBE (sat)	Base-emitter saturation voltage		—	—	4.2	V
-VCEO	Collector-emitter reverse voltage	Ic=-800A (diode forward voltage)	—	—	1.8	V
hFE	DC current gain	Ic=800A, VCE=4.0V	750	—	—	—
ton	Switching time	VCC=600V, Ic=800A, Ib1=1.6A, -Ib2=16A	—	—	2.5	μs
ts			—	—	20	μs
tf			—	—	5.0	μs
Rth (j-c) Q	Thermal resistance (junction to case)	Transistor part	—	—	0.023	°C/W
Rth (j-c) R		Diode part	—	—	0.12	°C/W
Rth (c-f)	Contact thermal resistance (case to fin)	Conductive grease applied	—	—	0.01	°C/W

QM800HA-24B

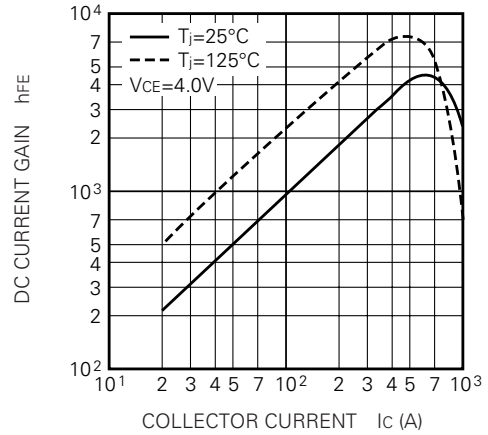
HIGH POWER SWITCHING USE
INSULATED TYPE

PERFORMANCE CURVES

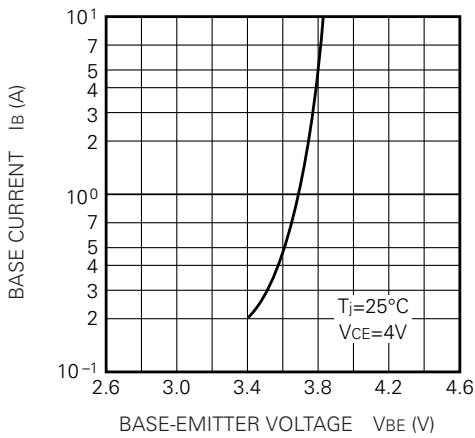
COMMON EMITTER OUTPUT CHARACTERISTICS (TYPICAL)



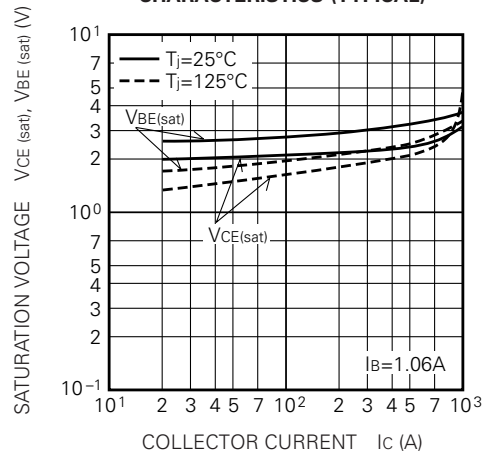
DC CURRENT GAIN VS. COLLECTOR CURRENT (TYPICAL)



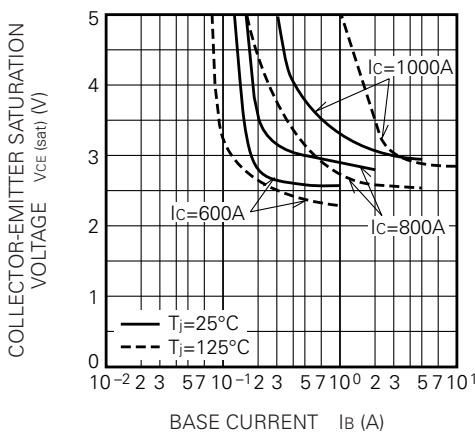
COMMON EMITTER INPUT CHARACTERISTIC (TYPICAL)



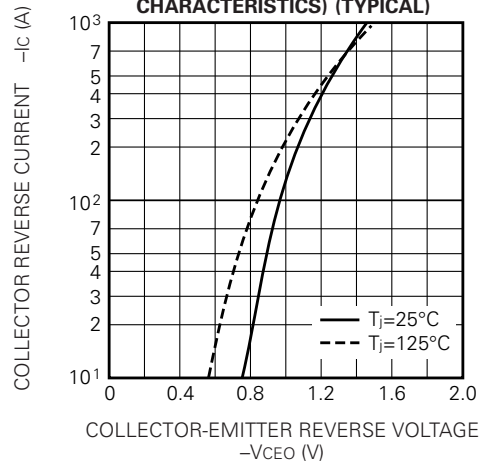
SATURATION VOLTAGE CHARACTERISTICS (TYPICAL)



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

