

isc Silicon NPN Power Transistor

QM5HG-24

DESCRIPTION

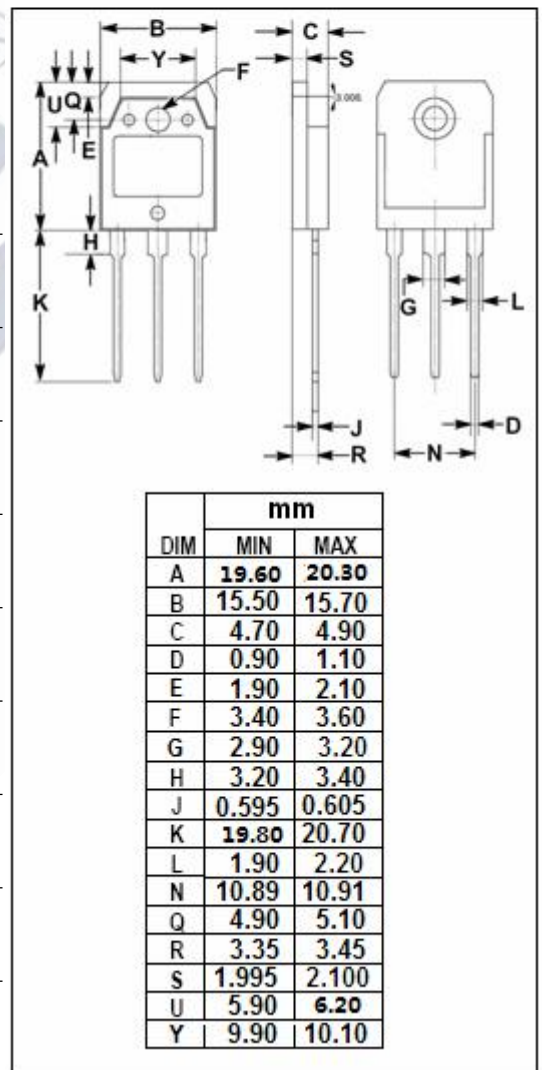
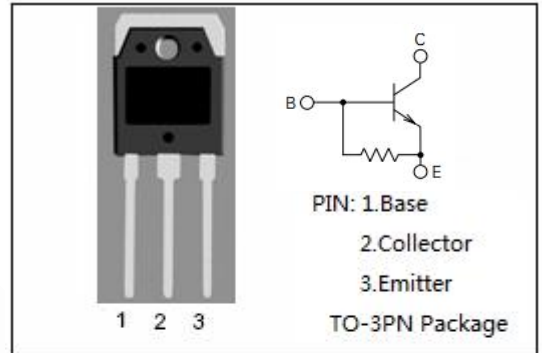
- High Power Handling capacity
- High Collector-Base Voltage-
: $V_{CBO} = 1200V(\text{Min})$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

- Base driver for High voltage transistor modules

ABSOLUTE MAXIMUM RATINGS(Ta=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	1200	V
V_{CEX}	Collector-Emitter Voltage	1200	V
V_{EBO}	Emitter-Base Voltage	7	V
I_C	Collector Current-Continuous	5	A
I_B	Base Current-Continuous	2	A
P_C	Collector Power Dissipation @ $T_C=25^\circ\text{C}$	100	W
T_J	Junction Temperature	-40~150	°C
T_{stg}	Storage Temperature Range	-40~150	°C



isc Silicon NPN Power Transistor**QM5HG-24****ELECTRICAL CHARACTERISTICS** $T_C=25^{\circ}\text{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT
$V_{(BR)CBO}$	Collector-Base Breakdown Voltage	$I_C=50\text{mA}; I_B=0$	1200			V
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=3\text{A}; I_B=0.6\text{A}$			1	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C=3\text{A}; I_B=0.6\text{A}$			1.5	V
I_{CBO}	Collector Cutoff Current	$V_{CB}=1200\text{V}; I_E=0$			1	mA
I_{EBO}	Emitter Cutoff Current	$V_{EB}=7\text{V}; I_C=0$			200	mA
h_{FE}	DC Current Gain	$I_C=3\text{A}; V_{CE}=1\text{V}$	5			

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