

DESCRIPTION

- High DC current amplifier rate
 $h_{FE}: 50-200 @ V_{CE} = 5V, I_C = 1A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

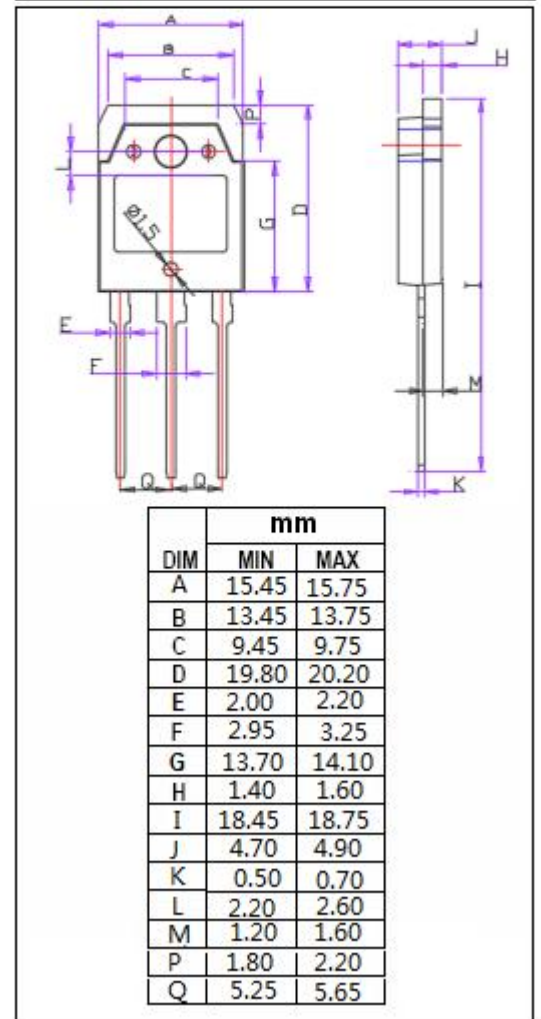
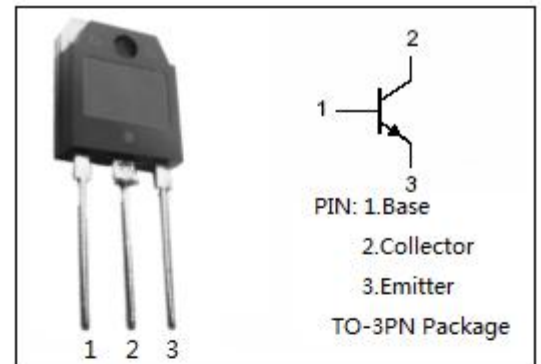
- High power audio, disk head positioners and other linear applications.

ABSOLUTE MAXIMUM RATINGS($T_a=25^{\circ}C$)

SYMBOL	PARAMETER	VALUE	UNIT
V_{CBO}	Collector-Base Voltage	230	V
V_{CEO}	Collector-Emitter Voltage	230	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current-Continuous	15	A
I_{CP}	Collector Current-Pulse	25	A
I_B	Base Current-Continuous	1.5	A
P_C	Total Power Dissipation @ $T_C=25^{\circ}C$	200	W
T_J	Junction Temperature	150	$^{\circ}C$
T_{stg}	Storage Temperature Range	-65~150	$^{\circ}C$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R_{thj-c}	Thermal Resistance, Junction to Case	0.63	$^{\circ}C/W$



ELECTRICAL CHARACTERISTICS**T_c=25°C unless otherwise specified**

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEQ(SUS)}	Collector-Emitter Sustaining Voltage	I _C =100mA ; I _B =0	230		V
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 10A; I _B = 1A		2	V
V _{BE(on)}	Base-Emitter Saturation Voltage	I _C = 8A; V _{CE} = 5V		2	V
I _{CBO}	Collector Cutoff Current	V _{CB} = 230V ; I _E =0		50	μA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C =0		5	μA
h _{FE-1}	DC Current Gain	I _C = 100mA ; V _{CE} = 5V	50	200	
h _{FE-2}	DC Current Gain	I _C = 1A ; V _{CE} = 5V	50	200	
h _{FE-3}	DC Current Gain	I _C = 8A ; V _{CE} = 5V	45		
h _{FE-4}	DC Current Gain	I _C = 15A ; V _{CE} = 5V	12		