

isc Silicon NPN Power Transistor

MJH16006

DESCRIPTION

- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)} = 450V(Min)
- · High Switching Speed
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

 Designed for high-voltage ,high-speed, power switching in inductive circuits where fall time is critical. They are particularly suited for line operated switch-mode applications.

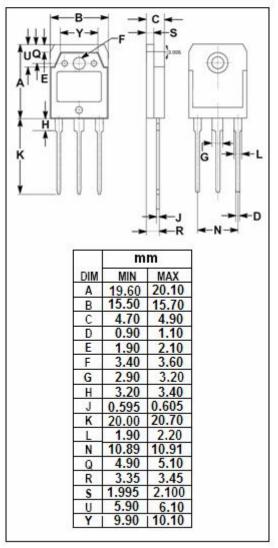
PIN 1. BASE 2.COLLECTOR 3. BMITTER TO-3PN package

ABSOLUTE MAXIMUM RATINGS(Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
Vcev	Collector-Emitter Voltage	850	V
V _{CEO(SUS)}	Collector-Emitter Voltage	450	V
V _{EBO}	Emitter-Base Voltage	6	V
Ic	Collector Current-Continuous		Α
I _{CM}	Collector Current-Peak	16	Α
I _B	Base Current-Continuous	6	Α
I _{BM}	Base Current-Peak	12	Α
Pc	Collector Power Dissipation @T _C =25°C	125	W
TJ	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-65~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
Rth j-c	Thermal Resistance, Junction to Case	1.0	°C/W





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ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP.	MAX	UNIT	
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C =30mA ; I _B =0	450			V	
V _{CE} (sat)-1	Collector-Emitter Saturation Voltage	I _C = 3A; I _B = 0.4A			2.5	V	
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 5A; I _B = 0.66A I _C = 5A; I _B = 0.66A,T _C =100°C			3.0 3.0	V	
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = 5A; I _B = 0.66A I _C = 5A; I _B = 0.66A,T _C =100°C			1.5 1.5	V	
Ісво	Collector Cutoff Current	V _{CB} =850V;I _E =0 V _{CB} =850V;I _E =0;T _C =100°C			0.25 1.5	mA	
І _{ЕВО}	Emitter Cutoff Current	V _{EB} = 6V; I _C =0			1.0	mA	
h _{FE}	DC Current Gain	I _C = 8A ; V _{CE} = 5V	5				

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