

isc Silicon PNP Power Transistor

DESCRIPTION

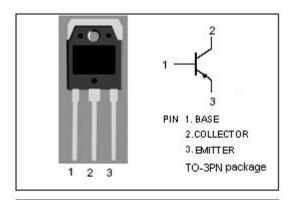
- DC Current Gain-
- : $h_{FE} = 40(Min)@I_C = -1A$
- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= -80V(Min)
- Complement to Type TIP33B
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

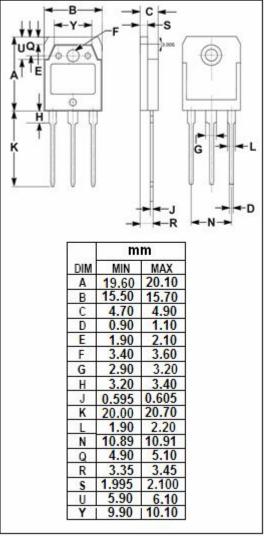


• Designed for use in general purpose power amplifier and switching applications.

ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT				
V _{CBO}	Collector-Base Voltage	-80	V				
V _{CEO}	Collector-Emitter Voltage	-80	V				
V _{EBO}	Emitter-Base Voltage	-5	V				
Ic	Collector Current -Continuous	-10	А				
I _{CM}	Collector Current-peak	-15	Α				
Ι _Β	Base Current	-3	Α				
Pc	Collector Power Dissipation@ T _C =25°C	80	W				
Tj	Junction Temperature	150	$^{\circ}$				
T _{stg}	Storage Temperature	-65~150	$^{\circ}$				
THERMAL CHARACTERISTICS							
SYMBOL	PARAMETER	MAX	UNIT				
R _{th j-c}	Thermal Resistance, Junction to Case		°C/W				







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TIP34B

ELECTRICAL CHARACTERISTICS

T_C=25℃ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	MAX	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -30mA; I _B = 0	-80		V
V _{CE(sat)-1}	Collector-Emitter Saturation Voltage	I _C = -3A; I _B = -0.3A		-1.0	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = -10A; I _B = -2.5A		-4.0	V
V _{BE(on)-1}	Base-Emitter On Voltage	I _C = -3A; V _{CE} = -4V		-1.6	V
V _{BE(on)-2}	Base-Emitter On Voltage	I _C = -10A; V _{CE} = -4V		-3.0	V
I _{CEO}	Collector Cutoff Current	V _{CE} = -60V; I _B = 0		-0.7	mA
Ices	Collector Cutoff Current	V _{CE} = -80V; V _{EB} = 0		-0.4	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = -5V; I _C = 0		-1.0	mA
h _{FE-1}	DC Current Gain	Ic= -1A; VcE= -4V	40		
h _{FE-2}	DC Current Gain	I _C = -3A; V _{CE} = -4V	20	100	
f⊤	Current-Gain—Bandwidth Product	I _C = -0.5A; V _{CE} = -10V; f _{test} = 1.0MHz	3		MHz

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