

isc Silicon NPN Power Transistor

TIP35B

DESCRIPTION

- DC Current Gain-
 - : h_{FE}= 25(Min)@I_C = 1.5A
- · Collector-Emitter Sustaining Voltage-
- : V_{CEO(SUS)}= 80V(Min)
- · Complement to Type TIP36B
- · Current Gain-Bandwidth Product-
 - : f_T = 3.0MHz(Min)@ I_C = 1.0A
- · 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



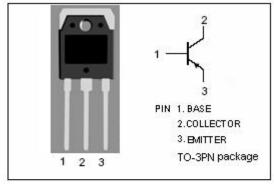
 Designed for use in general purpose power amplifier and switching applications.

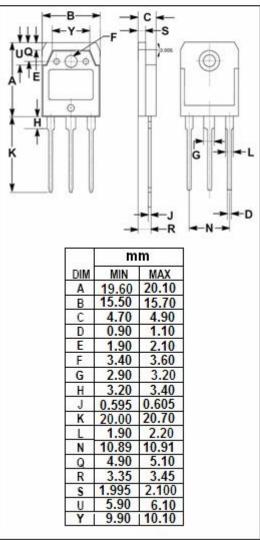
ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

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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	25	А				
I _{CM}	Collector Current-peak	40	Α				
I _B	Base Current	5	Α				
Pc	Collector Power Dissipation@ T _C =25 °C 125		W				
Tj	Junction Temperature 15		$^{\circ}$				
T _{stg}	Storage Temperature -65~150		$^{\circ}$				
THERMAI	CHARACTERISTICS						

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th 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	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 = 15A; I _B = 1.5A		1.8	V
V _{CE(sat)-2}	Collector-Emitter Saturation Voltage	I _C = 25A; I _B = 5A		4.0	V
V _{BE(on)-1}	Base-Emitter On Voltage	I _C = 15A; V _{CE} = 4V		2.0	V
V _{BE(on)-2}	Base-Emitter On Voltage	I _C = 25A; V _{CE} = 4V		4.0	V
I _{CEO}	Collector Cutoff Current	V _{CE} = 60V; I _B = 0		1.0	mA
Ices	Collector Cutoff Current	V _{CE} = 80V; V _{EB} = 0		0.7	mA
I _{EBO}	Emitter Cutoff Current	V _{EB} = 5V; I _C = 0		1.0	mA
h _{FE-1}	DC Current Gain	I _C = 1.5A; V _{CE} = 4V	25		
h _{FE-2}	DC Current Gain	I _C = 15A; V _{CE} = 4V	15		
f⊤	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 10V; f _{test} = 1.0MHz	3		MHz

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