

isc Silicon NPN Power Transistor

TIP35C

DESCRIPTION

- · DC Current Gain-
 - : h_{FE} = 25(Min)@I_C = 1.5A
- · Collector-Emitter Sustaining Voltage-
- : V_{CEO(SUS)}= 100V(Min)
- Complement to Type TIP36C
- · Current Gain-Bandwidth Product-
 - : $f_T = 3.0 MHz(Min)@I_C = 1.0 A$
- Minimum Lot-to-Lot variations for robust device performance and reliable operation



APPLICATIONS

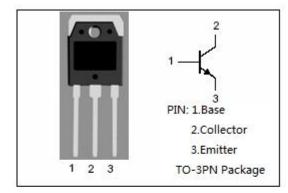
• Designed for use in general purpose power amplifier and switching applications.

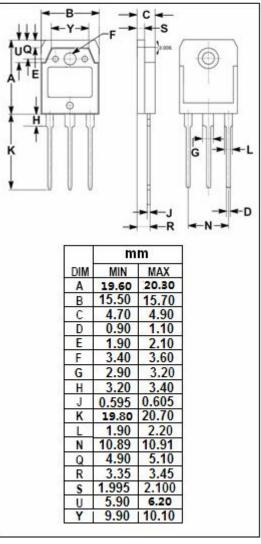
ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	100	V
VCEO	Collector-Emitter Voltage	100	V
V _{EBO}	Emitter-Base Voltage	5	V
Ic	Collector Current -Continuous	25	А
Ісм	Collector Current-peak	40	Α
I _B	Base Current	5	Α
Pc	Collector Power Dissipation@ T _C =25℃	125	W
Tj	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-65~150	${\mathbb C}$

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	100		V
VCE(sat)-1	Collector-Emitter Saturation Voltage	I _C = 15A ;I _B = 1.5A		1.8	V
VCE(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
I _{CES}	Collector Cutoff Current	V _{CE} = 100V;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	75	
f⊤	Current-Gain—Bandwidth Product	I _C = 1A; V _{CE} = 10V;f _{test} = 1.0MHz	3		MHz

NOTICE:

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