

isc Silicon PNP Power Transistor

TIP36E

DESCRIPTION

- DC Current Gain-
 - : $h_{FE} = 25(Min)@I_C = -1.5A$
- · Collector-Emitter Sustaining Voltage-
 - : V_{CEO(SUS)}= -140V(Min)
- Complement to Type TIP35E
- · Current Gain-Bandwidth Product-
 - : f_T = 3.0MHz(Min)@ I_C = -1.0A
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

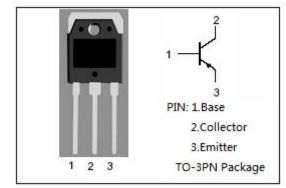
 Designed for use in general purpose power amplifier and switching applications.

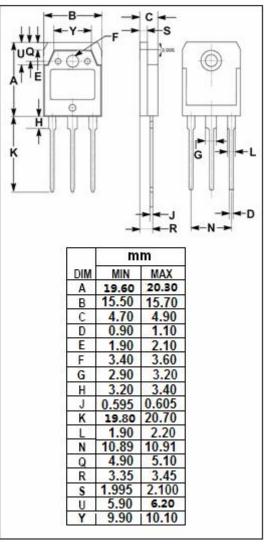
ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	-180	V
V _{CEO}	Collector-Emitter Voltage	-140	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current -Continuous	-25	Α
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	150	$^{\circ}$
T _{stg}	Storage Temperature	-65~150	$^{\circ}$

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	-140		V
V _{CE} (sat)-1	Collector-Emitter Saturation Voltage	I _C = -15A; I _B = -3A		-2.5	V
V _{CE} (sat)-2	Collector-Emitter Saturation Voltage	I _C = -25A; I _B = -6.25A		-5.0	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	Ic= -25A; VcE= -4V		-4.0	V
I _{CEO}	Collector Cutoff Current	V _{CE} = -90V; I _B = 0		-1.0	mA
I _{CBO}	Collector Cutoff Current	V _{CB} = -180V; I _E = 0		-0.7	mA
ІЕВО	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	Ic= -15A; VcE= -4V	8		

NOTICE:

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