

INCHANGE SEMICONDUCTOR

isc Silicon PNP Power Transistor

TIP36D

DESCRIPTION

- DC Current Gain-
 - : h_{FE}= 25(Min)@I_C = -1.5A
- Collector-Emitter Sustaining Voltage-: V_{CEO(SUS)}= -120V(Min)
- Complement to Type TIP35D
- 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.

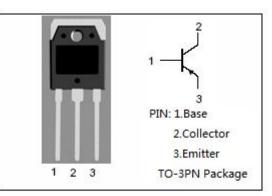
SYMBOL	PARAMETER	VALUE	UNIT			
V _{CBO}	Collector-Base Voltage	-160	V			
VCEO	Collector-Emitter Voltage	-120	V			
V _{EBO}	Emitter-Base Voltage	-5	V			
Ic	Collector Current -Continuous	-25	A			
Ісм	Collector Current-peak	-40	А			
I _B	Base Current	-5	А			
Pc	Collector Power Dissipation@ T _c =25°C 125		W			
Tj	Junction Temperature	ction Temperature 150				
T _{stg}	Storage Temperature	-65~150	°C			

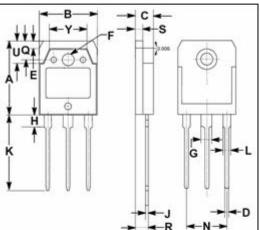
ABSOLUTE MAXIMUM RATINGS (Ta=25℃)

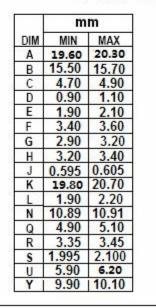
THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	МАХ	UNIT
R _{th j-c}	R _{th j-c} Thermal Resistance,Junction to Case		°C/W

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ELECTRICAL CHARACTERISTICS

$T_{\text{C}}\text{=}25^{\circ}\!\!\!\mathrm{C}$ unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	МАХ	UNIT
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	I _C = -30mA; I _B = 0	-120		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	Ic= -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} = -160V; I _E = 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	8		

NOTICE:

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