

isc Silicon NPN Power Transistor

TIP35AF

DESCRIPTION

- · DC Current Gain-
- : $h_{FE} = 25(Min)@I_C = 1.5A$
- · Collector-Emitter Sustaining Voltage-
- : V_{CEO(SUS)}= 60V(Min)
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

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

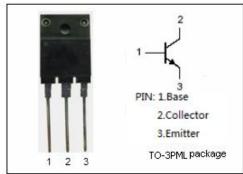


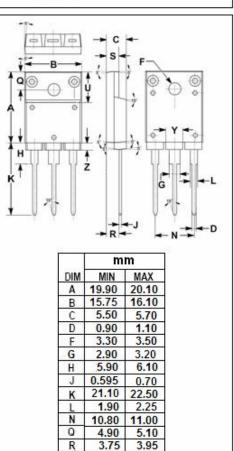
SYMBOL	PARAMETER	VALUE	UNIT
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	5	
Ic	Collector Current -Continuous	25	Α
Ісм	Collector Current-peak	40	Α
I _B	Base Current	5	Α
Pc	Collector Power Dissipation@ T _C =25℃	50	W
Tj	Junction Temperature	150	$^{\circ}$
T _{stg}	Storage Temperature	-65~150	$^{\circ}$

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal Resistance, Junction to Case	2.5	°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	60		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	Ic= 15A; Vc== 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} = 30V; I _B = 0		1.0	mA
Ices	Collector Cutoff Current	V _{CE} = 60V; 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		

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