TIP35/35A/35B/35C

DESCRIPTION

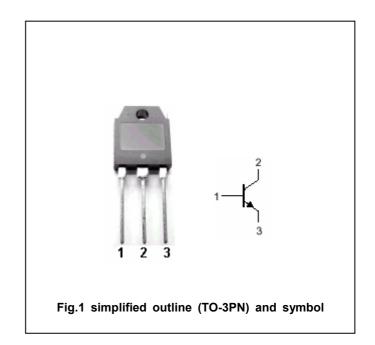
- ·With TO-3PN package
- -Complement to type TIP36/36A/36B/36C
- ·DC current gain h_{FE}=25(Min)@I_C=1.5A

APPLICATIONS

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

PINNING

PIN	DESCRIPTION	
1	Base	
2	Collector;connected to mounting base	
3	Emitter	



ABSOLUTE MAXIMUM RATINGS (T_C=)

SYMBOL	PARAMETER		CONDITIONS	VALUE	UNIT	
	Collector-base voltage	TIP35	Open emitter	40	V	
V		TIP35A		60		
V_{CBO}		TIP35B		80	V	
		TIP35C		100		
	Collector-emitter voltage	TIP35	- Open base	40	V	
$V_{\sf CEO}$		TIP35A		60		
V CEO		TIP35B		80		
		TIP35C		100		
V_{EBO}	Emitter-base voltage		Open collector	5	V	
Ic	Collector current			25	А	
I _{CM}	Collector current-peak			40	А	
I _B	Base current			5	Α	
Pc	Collector power dissipation		T _C =25□	125	W	
T _j	Junction temperature			150		
T _{stg}	Storage temperature			-65~150		

THERMAL CHARACTERISTICS

SYMBOL	PARAMETER	MAX	UNIT
R _{th j-c}	Thermal resistance junction to case	1.0	□ /W

TIP35/35A/35B/35C

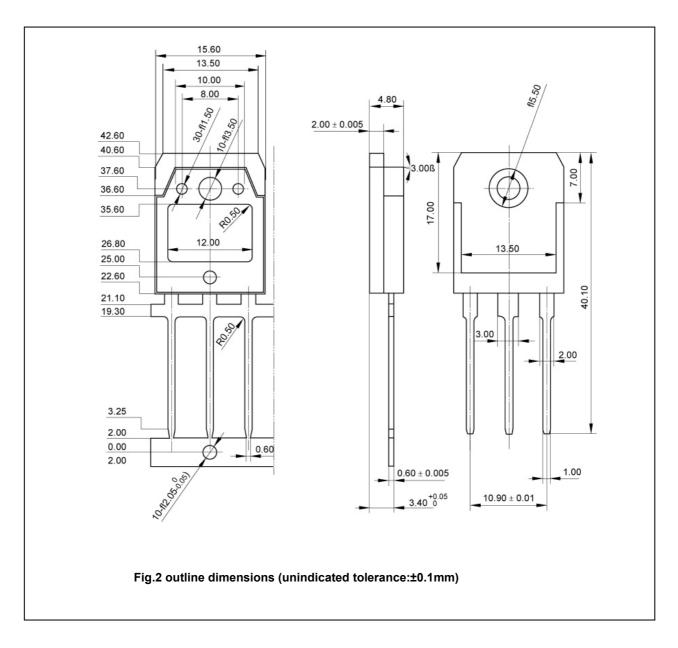
CHARACTERISTICS

Tj=25□ unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V _{(SUS)CEO}	Collector-emitter sustaining voltage	TIP35	- I _C =30mA ;I _B =0	40			V
		TIP35A		60			
		TIP35B		80			
		TIP35C		100			
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	٧
V _{BE-1}	Base-emitter on voltage		I _C =15A ; V _{CE} =4V			2.0	٧
V_{BE-2}	Base-emitter on voltage		I _C =25A ; V _{CE} =4V			4.0	٧
	Collector cut-off current	TIP35/35A	V _{CE} =30V; I _B =0			1.0	mA
I _{CEO}		TIP35B/35C	V _{CE} =60V; I _B =0				
	Collector cut-off current	TIP35	V _{CE} =40V;V _{EB} =0			0.7	mA
		TIP35A	V _{CE} =60V;V _{EB} =0				
I _{CES}		TIP35B	V _{CE} =80V;V _{EB} =0				
		TIP35C	V _{CE} =100V;V _{EB} =0				
I _{EBO}	Emitter cut-off 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⊤	Transition frequency		I _C =1A ; V _{CE} =10V	3			MHz

TIP35/35A/35B/35C

PACKAGE OUTLINE



TIP35/35A/35B/35C

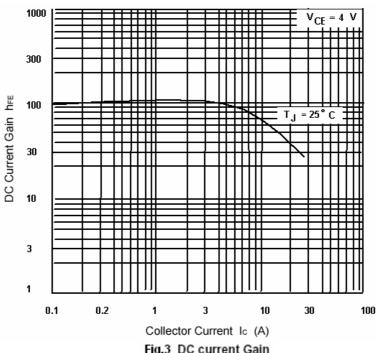


Fig.3 DC current Gain

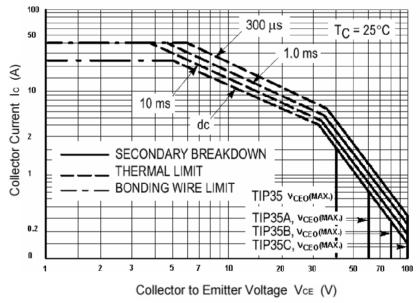


Fig.4 Safe Operating Area