TIP41/41A/41B/41C

DESCRIPTION

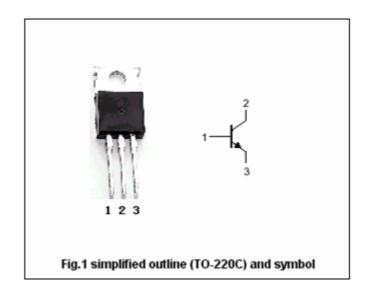
- ·With TO-220C package
- ·Complement to type TIP42/42A/42B/42C

APPLICATIONS

·For medium power linear switching applications

PINNING

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



ABSOLUTE MAXIMUM RATINGS(Tc=25□)

SYMBOL	PARAMETER		CONDITIONS	VALUE	UNIT	
V _{сво}	Collector-base voltage	TIP41		40		
		TIP41A	Open emitter	60	V	
		TIP41B		80		
		TIP41C		100		
V _{CEO}	Collector-emitter voltage	TIP41	Open base	40	V	
		TIP41A		60		
		TIP41B		80		
		TIP41C		100		
V _{EBO}	Emitter-base voltage		Open collector	5	V	
Ic	Collector current (DC)			6	Α	
I _{CM}	Collector current-Pulse			10	Α	
I _B	Base current			2	Α	
Pc	Collector power dissipation		T _C =25□	65	W	
			T _a =25	2		
Tj	Junction temperature			150		
T_{stg}	Storage temperature			-65~150		

TIP41/41A/41B/41C

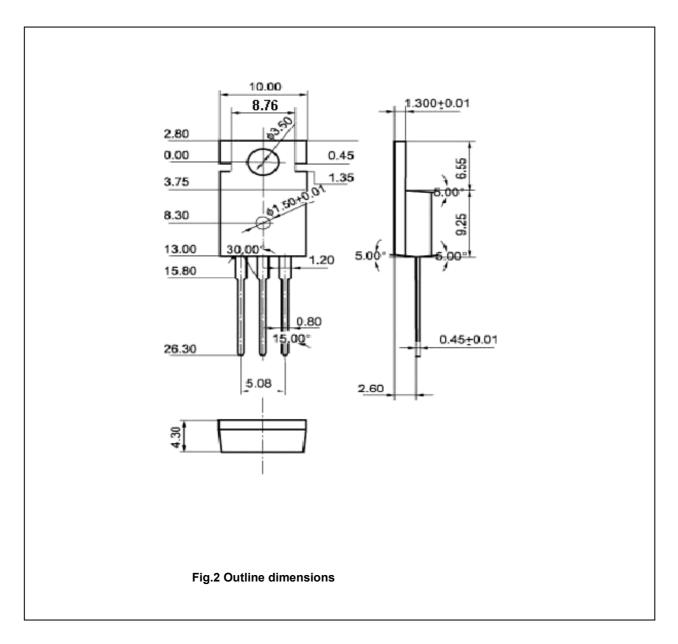
CHARACTERISTICS

Tj=25□ unless otherwise specified

SYMBOL	PARAMETER		CONDITIONS	MIN	TYP.	MAX	UNIT
V _{CEO(SUS)}	Collector-emitter sustaining voltage	TIP41	- I _C =30mA; I _B =0	40			V
		TIP41A		60			
		TIP41B		80			V
		TIP41C		100			
V _{CE(sat)}	Collector-emitter saturation voltage		I _C =6A; I _B =0.6A			1.5	V
V_{BE}	Base-emitter on voltage		I _C =6A; V _{CE} =4V			2.0	V
I _{CES}	Collector cut-off current	TIP41	V _{CE} =40V; V _{EB} =0			0.4	mA
		TIP41A	V _{CE} =60V; V _{EB} =0				
		TIP41B	V _{CE} =80V; V _{EB} =0				
		TIP41C	V _{CE} =100V; V _{EB} =0				
I _{CEO}	Collector cut-off current	TIP41/41A	V _{CE} =30V; I _B =0			0.7	mA
		TIP41B/41C	V _{CE} =60V; I _B =0				
I _{EBO}	Emitter cut-off current		V _{EB} =5V; I _C =0			1.0	mA
h _{FE-1}	DC current gain		I _C =0.3A ; V _{CE} =4V	30			
h _{FE-2}	DC current gain		I _C =3A ; V _{CE} =4V	15		75	
f _T	Transition frequency		I _C =0.5A; V _{CE} =10V	3			MHz

TIP41/41A/41B/41C

PACKAGE OUTLINE



TIP41/41A/41B/41C

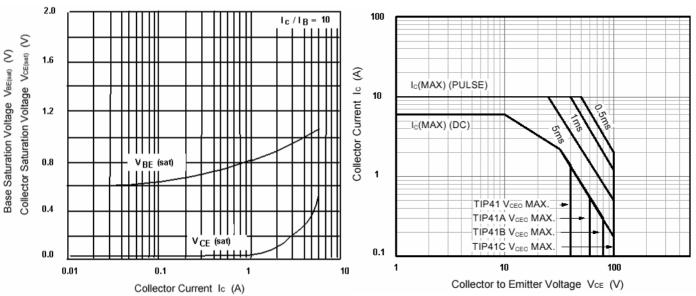


Fig.3 Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

Fig.4 Safe Operating Area

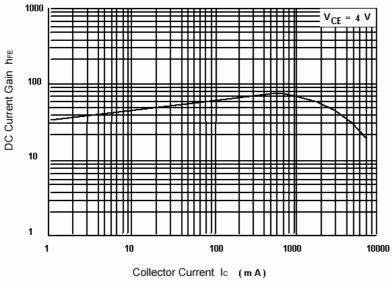


Fig.5 DC current Gain