

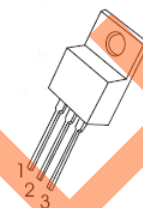
TIP41C TRANSISTOR (NPN)

FEATURES

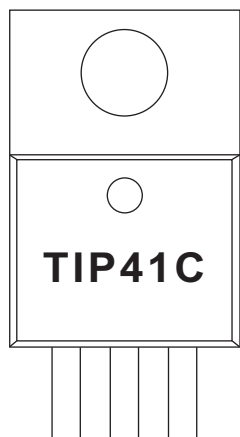
- Medium Power Linear Switching Applications

TO-220-3L

1. BASE
2. COLLECTOR
3. EMITTER

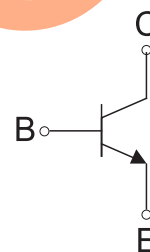


MARKING



TIP41C=Device code

Equivalent Circuit



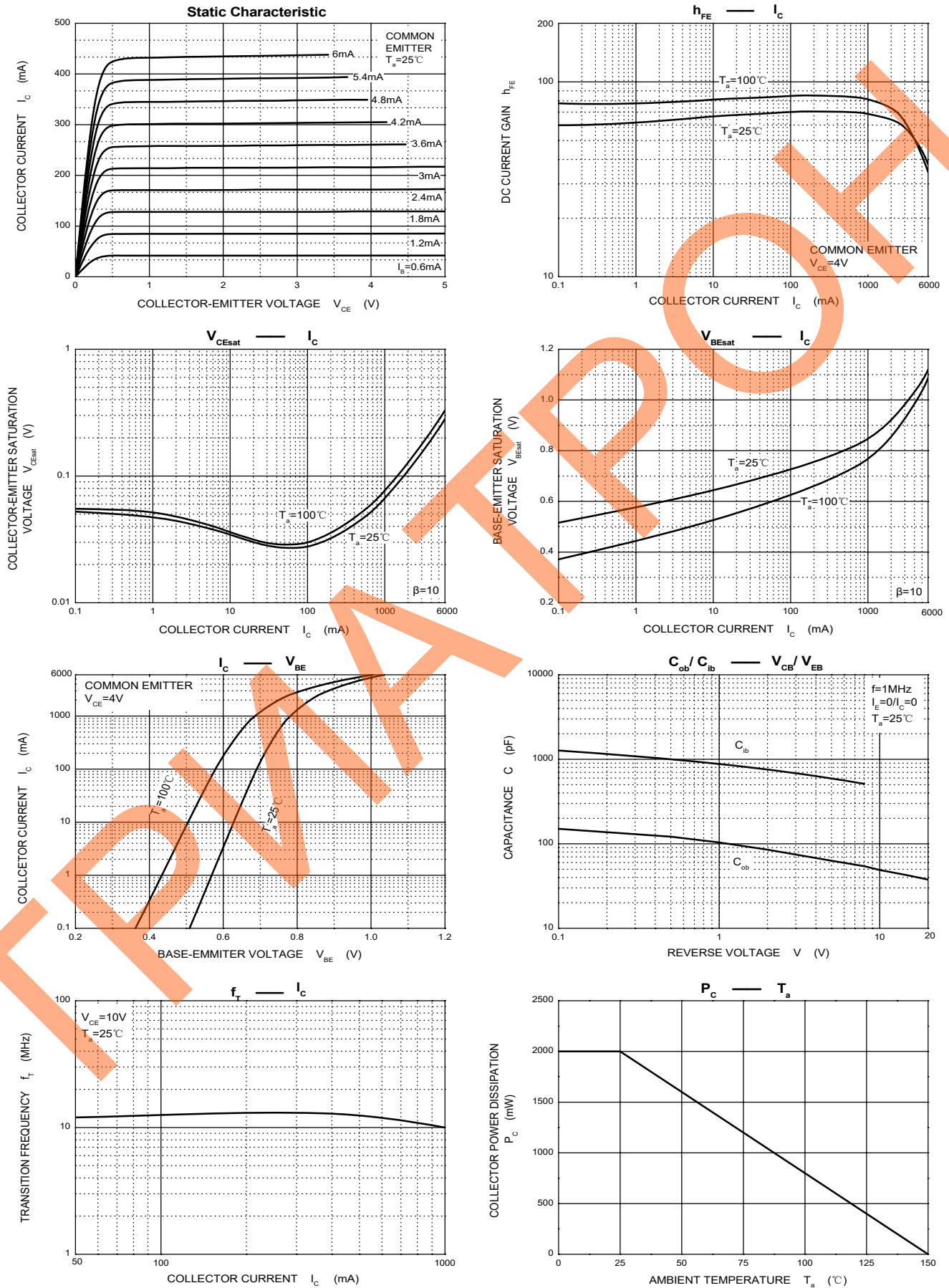
MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	100	V
V_{CEO}	Collector-Emitter Voltage	100	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current -Continuous	6	A
P_C	Collector Power Dissipation	2	W
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	62.5	$^{\circ}\text{C/W}$
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	$^{\circ}\text{C}$

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 1mA, I _E =0	100		V
Collector-emitter breakdown voltage	V _{CEO(sus)}	I _C = 30mA, I _B =0	100		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E = 1mA, I _C =0	5		V
Collector cut-off current	I _{CBO}	V _{CB} =100V, I _E =0		0.4	mA
Collector cut-off current	I _{CEO}	V _{CE} = 60V, I _B = 0		0.7	mA
Emitter cut-off current	I _{EBO}	V _{EB} =5V, I _C =0		1	mA
DC current gain	h _{FE(1)}	V _{CE} = 4V, I _C = 0.3A	30		
	h _{FE(2)}	V _{CE} =4 V, I _C = 3A	15	75	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =6A, I _B =0.6A		1.5	V
Base-emitter voltage	V _{BE(on)}	V _{CE} = 4V, I _C =6A		2	V
Transition frequency	f _T	V _{CE} =10V , I _C =0.5A f =1MHz	3		MHz

Typical Characteristics



TO-220 Package Outline Dimensions

