

TIP41C TRANSISTOR (NPN)

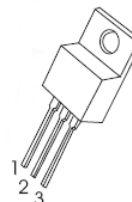
- **FEATURES**
Medium Power Linear Switching Applications

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

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	100	V
Collector-Emitter Voltage	V_{CEO}	100	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current -Continuous	I_{C}	6	A
Collector Power Dissipation	P_{C}	2	W
Operation Junction and Storage Temperature Range	$T_{\text{J}}, T_{\text{stg}}$	-55~+150	$^{\circ}\text{C}$

TO-220AB

- 1.BASE
2.COLLECTOR
3.EMITTER

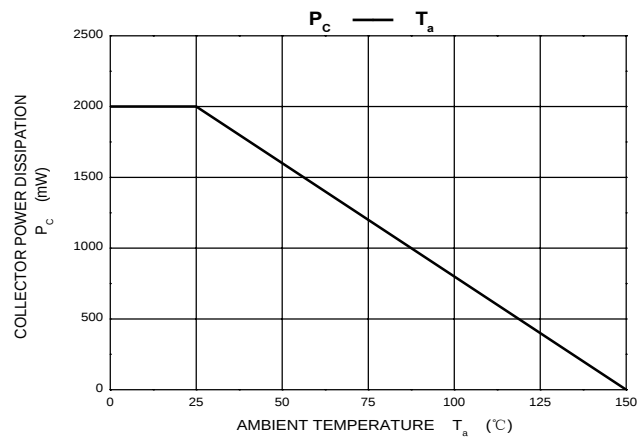
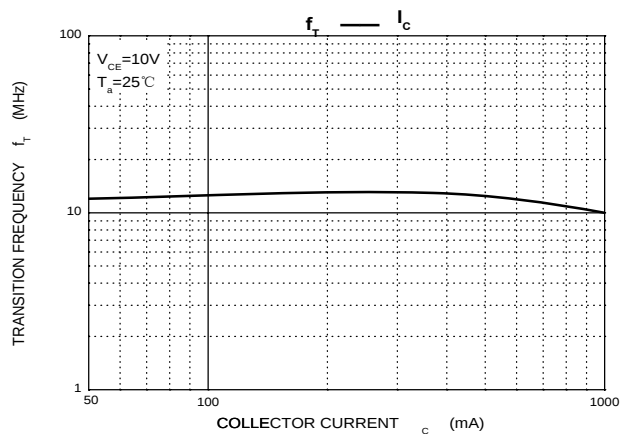
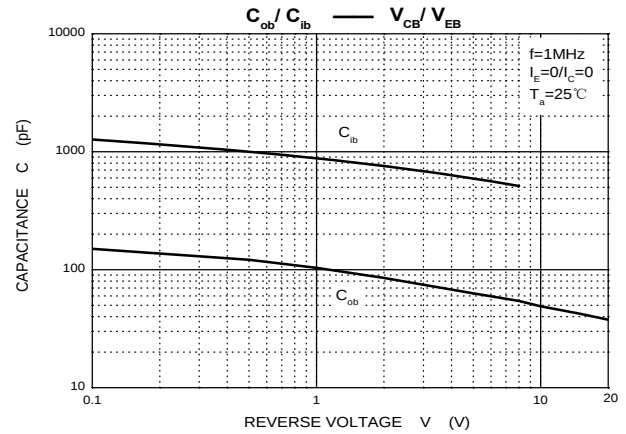
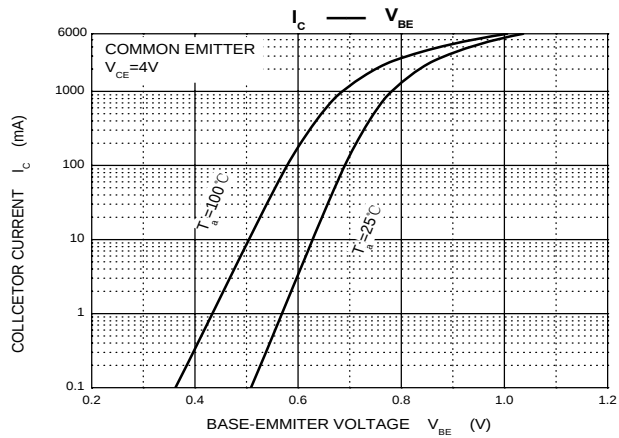
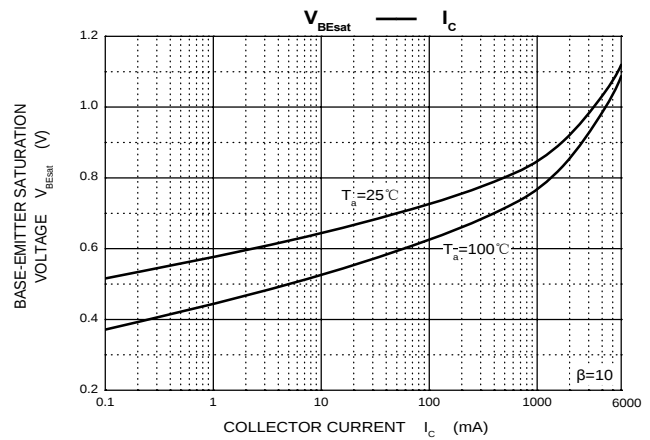
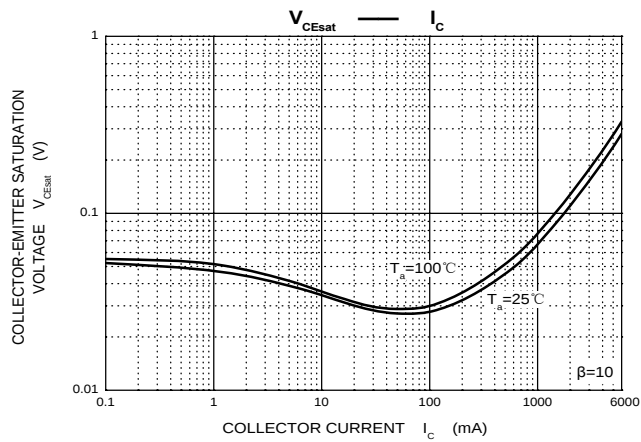
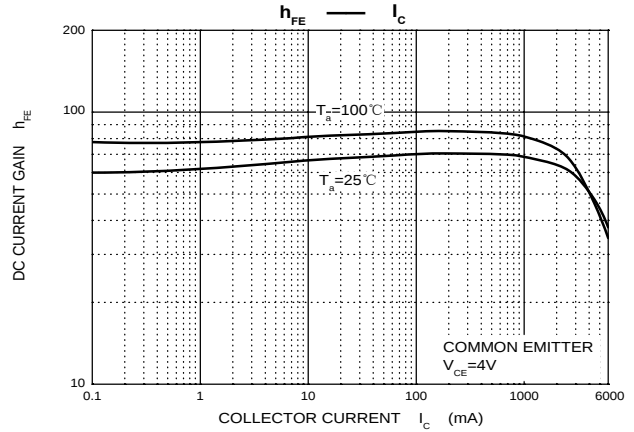
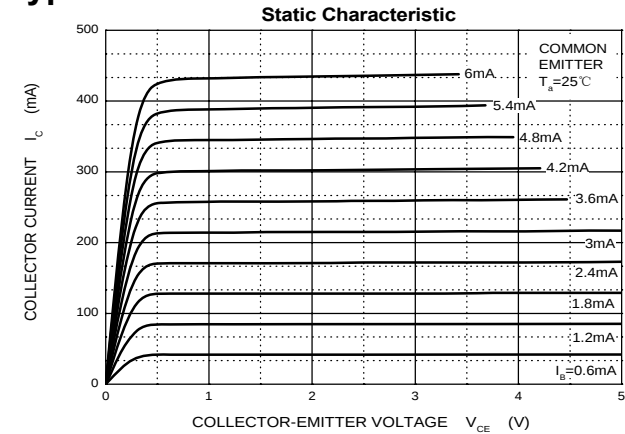


Electrical Characteristics @ $T_A=25^{\circ}\text{C}$ Unless Otherwise Specified

Parameter	Symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	$V_{(\text{BR})\text{CBO}}$	$I_{\text{C}}=1\text{mA}, I_{\text{E}}=0$	100		V
Collector-emitter breakdown voltage	$V_{\text{CEO(sus)}}$	$I_{\text{C}}=30\text{mA}, I_{\text{B}}=0$	100		V
Emitter-base breakdown voltage	$V_{(\text{BR})\text{EBO}}$	$I_{\text{E}}=1\text{mA}, I_{\text{C}}=0$	5		V
Collector cut-off current	I_{CBO}	$V_{\text{CB}}=100\text{V}, I_{\text{E}}=0$	0.4		mA
Collector cut-off current	I_{CEO}	$V_{\text{CE}}=60\text{V}, I_{\text{B}}=0$	0.7		mA
Emitter cut-off current	I_{EBO}	$V_{\text{EB}}=5\text{V}, I_{\text{C}}=0$		1	mA
DC current gain	$h_{\text{FE}(1)}$	$V_{\text{CE}}=4\text{V}, I_{\text{C}}=0.3\text{A}$	30		
	$h_{\text{FE}(2)}$	$V_{\text{CE}}=4\text{V}, I_{\text{C}}=3\text{A}$	15	75	
Collector-emitter saturation voltage	$V_{\text{CE(sat)}}$	$I_{\text{C}}=6\text{A}, I_{\text{B}}=0.6\text{A}$		1.5	V
Base-emitter voltage	$V_{\text{BE(on)}}$	$V_{\text{CE}}=4\text{V}, I_{\text{C}}=6\text{A}$		2	V
Transition frequency	f_{T}	$V_{\text{CE}}=10\text{V}, I_{\text{C}}=0.5\text{A}$ $f=1\text{MHz}$	3		MHz



Typical Characteristics



TO-220AB Package Outline Dimensions

