

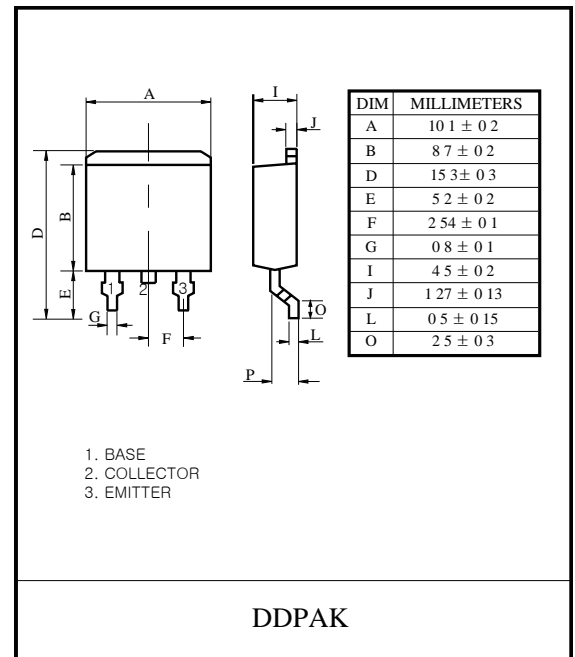
FTA1615DD TRANSISTOR (PNP)

FEATURES

- Large Current Capacity
- High h_{FE} and Low Collector Saturation Voltage

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

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-30	V
V_{CEO}	Collector-Emitter Voltage	-20	V
V_{EBO}	Emitter-Base Voltage	-10	V
I_C	Collector Current –Continuous	-10	A
P_C	Collector Power Dissipation (Note 2)	2 ($T_a=25^\circ\text{C}$)	W
		50 ($T_c=25^\circ\text{C}$)	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55-150	$^\circ\text{C}$



- Note 1.** Absolute maximum ratings are those values beyond which the device could be permanently damaged. Absolute maximum ratings are stress ratings only and functional device operation is not implied.
- 2.** When mounted on a 40*40*0.7mm ceramic board

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$ unless otherwise specified)

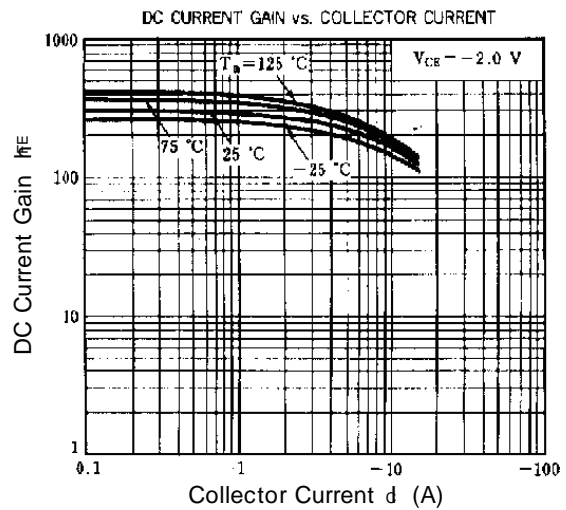
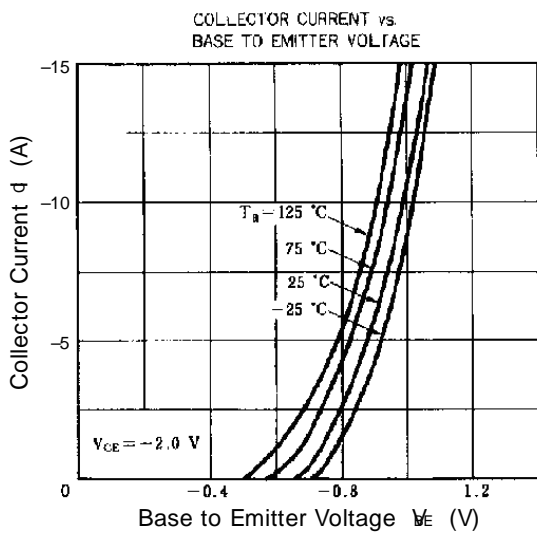
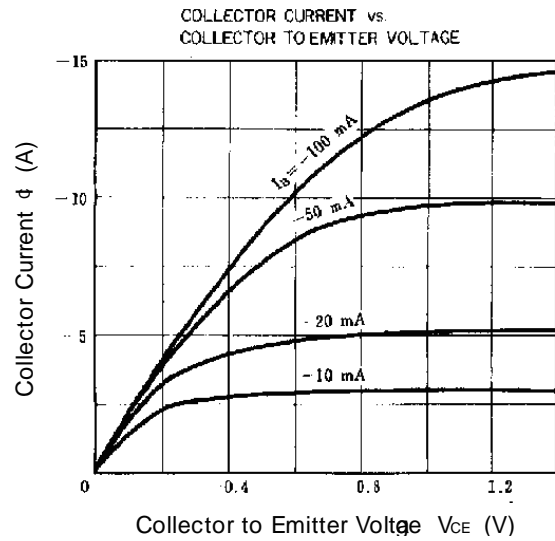
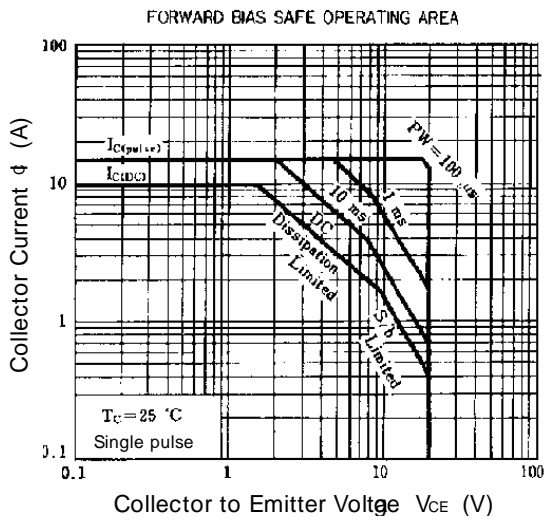
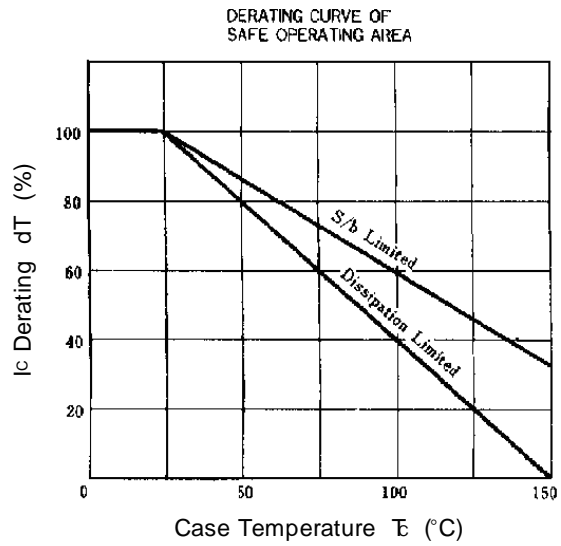
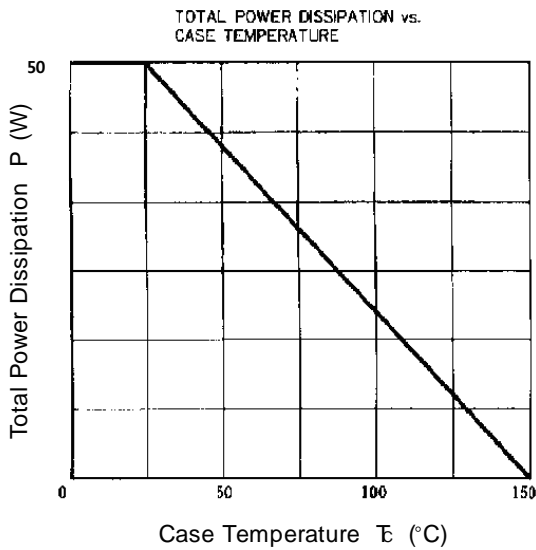
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-1\text{mA}, I_E=0$	-30			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-10\text{mA}, I_B=0$	-20			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-1\text{mA}, I_C=0$	-10			V
Collector cut-off current	I_{CBO}	$V_{CB}=-20\text{V}, I_E=0$			-1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-8\text{V}, I_C=0$			-1	μA
DC current gain	$h_{FE(1)}$ *	$V_{CE}=-2\text{V}, I_C=-0.5\text{A}$	200		600	
	$h_{FE(2)}$ *	$V_{CE}=-2\text{V}, I_C=-4\text{A}$	160			
Collector-emitter saturation voltage	$V_{CE(sat)}$ *	$I_C=-4\text{A}, I_B=-0.05\text{A}$			-0.25	V
Base-emitter saturation voltage	$V_{BE(sat)}$ *	$I_C=-4\text{A}, I_B=-0.05\text{A}$			-1.2	V
Collector output capacitance	C_{ob}	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$		220		pF
Transition frequency	f_T	$V_{CE}=-5\text{V}, I_C=-1.5\text{A}$		180		MHz

*Pulse test: pulse width $\leq 10\text{ms}$, duty cycle $\leq 50\%$.

CLASSIFICATION OF $h_{FE(1)}$

RANK	L	K
RANGE	200-400	300-600

TYPICAL CHARACTERISTICS (Ta=25°C)





FTA1615DD

