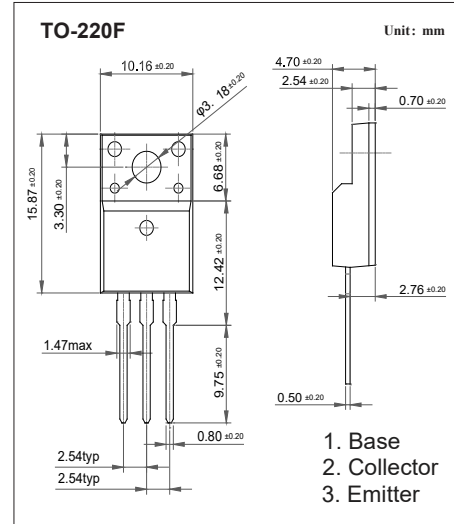


NPN Transistors

■ Features

- Low Collector-Emitter Saturation Voltage
- Complementary to FTA1049



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CB0}	100	V
Collector - Emitter Voltage	V _{CEO}	100	
Emitter - Base Voltage	V _{EB0}	5	
Collector Current - Continuous	I _C	5	A
Base Current	I _B	0.5	
Collector Power Dissipation T _c = 25°C	P _C	30	W
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-55 to 150	

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{CB0}	I _C = 100uA, I _E = 0	100			V
Collector- emitter breakdown voltage	V _{CEO}	I _C = 50 mA, I _B =0	100			
Emitter - base breakdown voltage	V _{EB0}	I _E = 100uA, I _C = 0	5			
Collector-base cut-off current	I _{CB0}	V _{CB} = 100 V, I _E = 0			0.1	uA
Emitter cut-off current	I _{EB0}	V _{EB} = 5V, I _C =0			0.1	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =4 A, I _B =400mA			2	V
Base - emitter saturation voltage	V _{BE(sat)}	I _C =4 A, I _B =400mA			1.2	
Base - emitter voltage	V _{BE}	V _{CE} = 5V, I _C =1 A			1.5	
DC current gain	h _{FE}	V _{CE} = 5V, I _C =1 A	70		240	
		V _{CE} = 5V, I _C =4 A	20			
Collector output capacitance	C _{ob}	V _{CB} = 10V, I _E = 0, f=1MHz		100		pF
Transition frequency	f _T	V _{CE} = 5V, I _C = 1 A		30		MHz

■ Classification of h_{FE}(1)

Type	FTC2028-O	FTC2028-Y
Range	70-140	120-240

NPN Transistors

■ Typical Characteristics

