

FTC2878 TRANSISTOR (NPN)

FEATURES

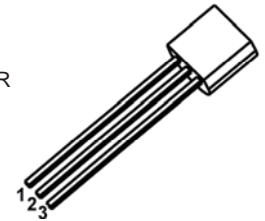
- High Emitter- Base Voltage
- Low on Resistance

MAXIMUM RATINGS (Ta=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	50	V
V _{CEO}	Collector-Emitter Voltage	20	V
V _{EBO}	Emitter-Base Voltage	15	V
I _C	Collector Current -Continuous	0.3	A
P _C	Collector Power Dissipation	0.4	W
T _j	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C

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1. EMITTER
2. COLLECTOR
3. BASE



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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector- base breakdown voltage	V _{(BR)CBO}	I _C =10μA, I _E =0	50			V
Collector- emitter breakdown voltage	V _{(BR)CEO}	I _C =1mA, I _B =0	20			V
Emitter- base breakdown voltage	V _{(BR)EBO}	I _E =10μA, I _C =0	15			V
Collector cut- off current	I _{CBO}	V _{CB} =50V, I _E =0			0.1	μA
Emitter cut- off current	I _{EBO}	V _{EB} =15V, I _C =0			0.1	μA
DC current gain	h _{FE}	V _{CE} =2V, I _C =4mA	200		1200	
Collector- emitter saturation voltage	V _{CE(sat)}	I _C =30mA, I _B =3mA			0.3	V
Base- emitter voltage	V _{BE(on)}	V _{CE} =2V, I _C =4mA			0.71	V
Transition frequency	f _T	V _{CE} =6V, I _C =4mA		30		MHz
Collector output capacitance	C _{ob}	V _{CB} =10V, I _E =0, f=1MHz			7	pF
Turn- on time	t _{on}	V _{CC} =12V, I _C =12mA, I _B =1.2mA			160	nS
Storage time	t _S				500	nS
Fall time	t _f				130	nS

CLASSIFICATION OF h_{FE}

Rank	A	B
Range	200-700	350-1200

● Electrical characteristic curves

