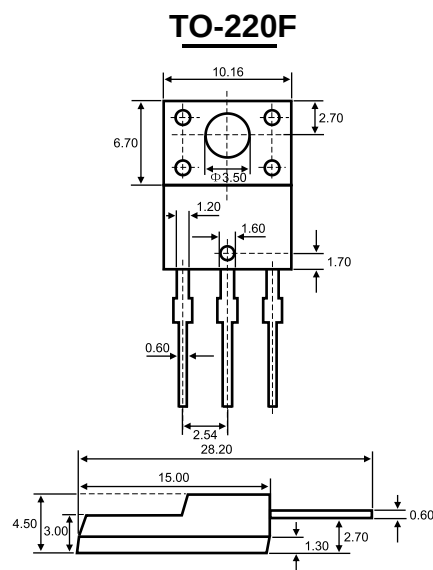


1. BASE
2. COLLECTOR
3. EMITTER

Features

- ✧ Breakdown Voltage High
- ✧ Reverse Cut-off Current Small
- ✧ Saturation Voltage Low
- ✧ Collector Power dissipation
 $P_{CM} : 2 \text{ W (Tamb=25°C)}$
 $30 \text{ W (Tcase=25°C)}$



Dimensions in inches and (millimeters)

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

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-60	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-3	A
T _J	Junction temperature	150	°C
T _{stg}	Storage temperature	-55-150	°C

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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-50μA, I _E =0	-60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA, I _B =0	-60			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-50μA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-60V, I _E =0			-10	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-4V, I _C =0			-10	μA
DC current gain	h _{FE} *	V _{CE} =-5V, I _C =-500mA	100		320	
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C =-2A, I _B =-0.2A			-1.5	V
Base-emitter saturation voltage	V _{BE(sat)} *	I _C =-2A, I _B =-0.2A			-1.5	V
Transition frequency	f _T	V _{CE} =-5V, I _C =-500mA, f=5MHz		15		MHz
Out capacitance	Cob	V _{CB} = -10 V , f=1MHz		80		pF

*Pulse test: t_p≤300μs, δ≤0.02.

CLASSIFICATION OF h_{FE}

Rank	E	F
Range	100-200	160-320

Typical Characteristics

