



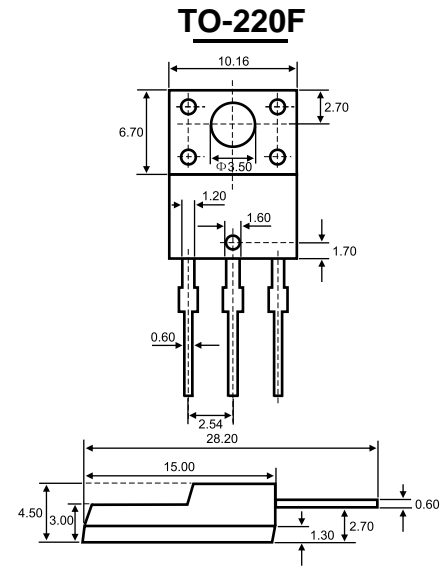
1. BASE
2. COLLECTOR
3. EMITTE

Features

- ◇ High Current Gain
- ◇ Saturation Voltage Low
- ◇ Power dissipation
 $P_{CW} : 2 \text{ W (Tamb=25 } ^\circ\text{C)}$
 $25 \text{ W (Tcase=25} ^\circ\text{C)}$

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

Symbol	Parameter	Value	Units
V _{CB0}	Collector-Base Voltage	60	V
V _{CE0}	Collector-Emitter Voltage	60	V
V _{EB0}	Emitter-Base Voltage	7	V
I _C	Collector Current -Continuous	3	A
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C



Dimensions in inches and (millimeters)

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 =1mA, I _E =0	60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =10mA, I _B =0	60			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =100μA, I _C =0	7			V
Collector cut-off current	I _{CB0}	V _{CB} =60V, I _E =0			100	μA
Emitter cut-off current	I _{EBO}	V _{EB} =7V, I _C =0			100	μA
DC current gain	h _{FE} *	V _{CE} =5V, I _C =500mA	60		300	
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C =3A, I _B =300mA			1.0	V
Transition frequency	f _T	V _{CE} =5V, I _C =500mA	5			MHz

*Pulse test: t_p≤300μS, δ≤0.02.

CLASSIFICATION OF h_{FE}

Rank	O	Y	GR
Range	60-120	100-200	150-300

Typical Characteristics

