

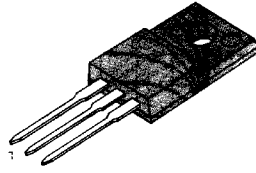
HIGH h_{FE} , AF POWER AMPLIFIER

- "Full Pack" Package for Simplified Mounting Only by a Screw,
Requires no Insulator.

ABSOLUTE MAXIMUM RATINGS

Characteristic	Symbol	Rating	Unit
Collector Base Voltage	V_{CB0}	80	V
Collector Emitter Voltage	V_{CE0}	60	V
Emitter Base Voltage	V_{EB0}	6	V
Collector Current (DC)	I_C	3	A
Collector Current (Pulse)	I_C	6	A
Base Current	I_B	1	A
Collector Dissipation ($T_A=25^\circ\text{C}$)	P_C	2	W
Collector Dissipation ($T_C=25^\circ\text{C}$)	P_C	40	W
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature	T_{STG}	-55 ~ 150	$^\circ\text{C}$

TO-220F



1. Base 2. Collector 3. Emitter

ELECTRICAL CHARACTERISTICS ($T_C=25^\circ\text{C}$)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Emitter Voltage	BV_{CE0}	$I_C = 25\text{mA}, I_B = 0$	60			V
Collector Cutoff Current	I_{CB0}	$V_{CB} = 80\text{V}, I_E = 0$			100	μA
Collector Cutoff Current	I_{CE0}	$V_{CE} = 60\text{V}, I_B = 0$			100	μA
Emitter Cutoff Current	I_{EB0}	$V_{EB} = 6\text{V}, I_C = 0$			100	μA
DC Current Gain	h_{FE}	$V_{CE} = 4\text{V}, I_C = 0.5\text{A}$	500		2500	
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 2\text{A}, I_B = 0.05\text{A}$			1	V
Current Gain Bandwidth Product	f_T	$V_{CE} = 12\text{V}, I_C = 0.2\text{A}$		30		MHz

 h_{FE} CLASSIFICATION

Classification	Q	P	O
h_{FE}	500 ~ 1000	800 ~ 1500	1200 ~ 2500

