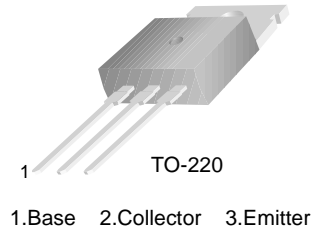


■■ APPLICATION: AMPLIFIER APPLICATION,  
SWITCHING APPLICATION.

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V <sub>CBO</sub>	100	V
Collector-emitter voltage	V <sub>CEO</sub>	100	V
Emitter-base voltage	V <sub>EBO</sub>	5	V
Collector current	I <sub>C</sub>	6	A
Base current	I <sub>B</sub>	3	A
Collector Power Dissipation (Ta=25°C)	P <sub>C</sub>	2	W
Collector Power Dissipation (Tc=25°C)	P <sub>C</sub>	65	W
Junction Temperature	T <sub>J</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 65~150	°C



■■ ELECTRICAL CHARACTERISTICS

(Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h <sub>FE1</sub>	15		75		V <sub>CE</sub> = 4V, I <sub>C</sub> = 3A
	h <sub>FE2</sub>	30				V <sub>CE</sub> = 4V, I <sub>C</sub> = 0.3A
Collector-Emitter Cut-off Current	I <sub>CEO</sub>			0.7	mA	V <sub>CE</sub> =60V, I <sub>E</sub> =0
Emitter-Base Cut-off Current	I <sub>EBO</sub>			1	mA	V <sub>EB</sub> =5V, I <sub>C</sub> =0
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	100			V	I <sub>C</sub> = 1mA, I <sub>E</sub> =0
Base-Emitter on Voltage	BV <sub>CEO</sub>	100			V	I <sub>C</sub> = 30mA, I <sub>B</sub> =0
Emitter-Base Breakdown Voltage	BV <sub>EBO</sub>	5			V	I <sub>E</sub> = 1mA, I <sub>C</sub> =0
Base-Emitter on Voltage	V <sub>BE</sub>			2	V	V <sub>CE</sub> = 4V, I <sub>C</sub> = 6A
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			1.5	V	I <sub>C</sub> = 6A, I <sub>B</sub> =0.6A
Gain bandwidth product	f <sub>T</sub>	3			MHz	V <sub>CE</sub> =10V, I <sub>C</sub> =0.5A, f=1MHz

■■ h<sub>FE</sub> Classification And Marking

Print Mark

Classification

h<sub>FE</sub>

15~75