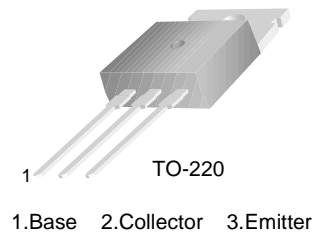


■■ APPLICATION: Video Power Amplifier Applications.

■■ MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V <sub>CBO</sub>	35	V
Collector-emitter voltage	V <sub>CEO</sub>	35	V
Emitter-base voltage	V <sub>EBO</sub>	5	V
Collector current	I <sub>c</sub>	1.5	A
Collector Power Dissipation	P <sub>c</sub>	1.75 / 10	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature Range	T <sub>stg</sub>	- 55~150	°C
Resistance	R <sub>rj</sub>	12.5	°C/W



■■ ELECTRICAL CHARACTERISTICS

(Ta=25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h <sub>FE</sub>	40		320		V <sub>CE</sub> =2V, I <sub>c</sub> = 1A
Collector Cut-off Current	I <sub>CBO</sub>			0.1	mA	V <sub>CB</sub> = 20V, I <sub>E</sub> =0
Emitter Cut-off Current	I <sub>EBO</sub>			1.0	mA	V <sub>EB</sub> = 4V, I <sub>c</sub> =0
Collector-Base Breakdown Voltage	BV <sub>CBO</sub>	35			V	I <sub>c</sub> = 1mA, I <sub>E</sub> =0
Collector-Emitter Breakdown Voltage	BV <sub>CEO</sub>	35			V	I <sub>c</sub> = 10mA, 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 Voltage	V <sub>BE</sub>			1.5	V	V <sub>CE</sub> =5V, I <sub>c</sub> = 1A
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>			1.0	V	I <sub>c</sub> = 1.5A, I <sub>B</sub> = 0.15A
Gain bandwidth product	f <sub>T</sub>	3	8		MHz	I <sub>c</sub> = 0.5A, V <sub>CE</sub> =5V

■■ h<sub>FE</sub> Classification

Classification	C	D	E	F
h <sub>FE</sub>	40~80	60~120	100~200	160~320