

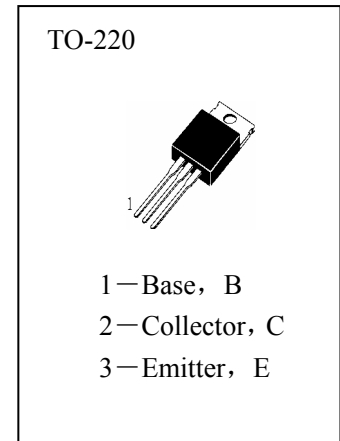


■ APPLICATIONS

TV Vertical Deflection Output .

■ ABSOLUTE MAXIMUM RATINGS (T<sub>a</sub>=25°C)

- T<sub>stg</sub>—Storage Temperature..... -55~150°C
- T<sub>j</sub>—Junction Temperature..... 150°C
- P<sub>C</sub>—Collector Dissipation(T<sub>c</sub>=25°C).....25W
- V<sub>CBO</sub>—Collector-Base Voltage.....150V
- V<sub>CEO</sub>—Collector-Emitter Voltage.....150V
- V<sub>EBO</sub>—Emitter-Base Voltage.....5V
- I<sub>C</sub>—Collector Current.....1.5A



■ ELECTRICAL CHARACTERISTICS (T<sub>a</sub>=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	150			V	I <sub>C</sub> =500 μ A, I <sub>E</sub> =0
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	150			V	I <sub>C</sub> =10mA, I <sub>B</sub> =0
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	5			V	I <sub>E</sub> =500 μ A, I <sub>C</sub> =0
H <sub>FE</sub>	DC Current Gain	40	75	140		V <sub>CE</sub> =10V, I <sub>C</sub> =500mA
V <sub>CE(sat)</sub>	Collector- Emitter Saturation Voltage			1	V	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA
I <sub>CBO</sub>	Collector Cut-off Current			10	μ A	V <sub>CB</sub> =120V, I <sub>E</sub> =0
I <sub>EBO</sub>	Emitter Cut-off Current			10	μ A	V <sub>EB</sub> =5V, I <sub>C</sub> =0
f <sub>T</sub>	Current Gain-Bandwidth Product		4		MHz	V <sub>CE</sub> =10V, I <sub>C</sub> =500mA
C <sub>ob</sub>	Output Capacitance		50		pF	V <sub>CB</sub> =10V, I <sub>E</sub> =0, f=1MHz

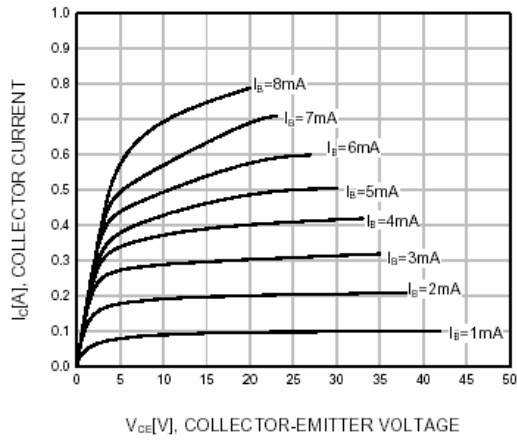
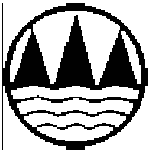


Figure 1. Static Characteristic

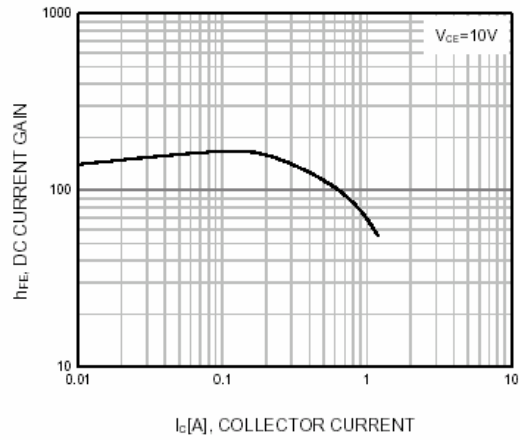


Figure 2. DC current Gain

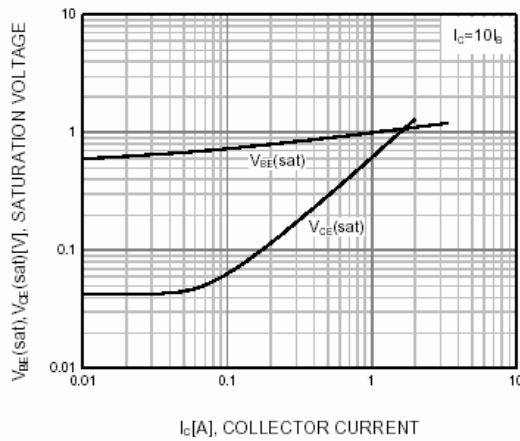


Figure 3. Base-Emitter Saturation Voltage  
Collector-Emitter Saturation Voltage

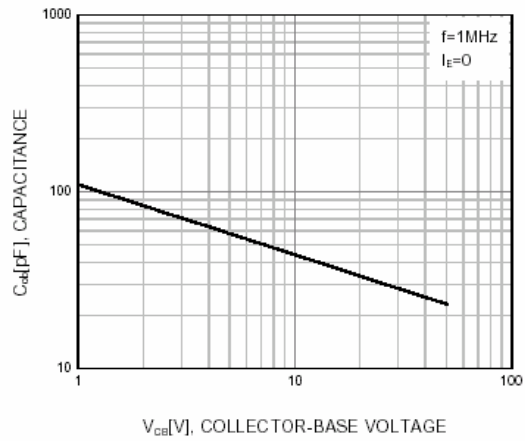


Figure 4. Collector-Emitter On Voltage

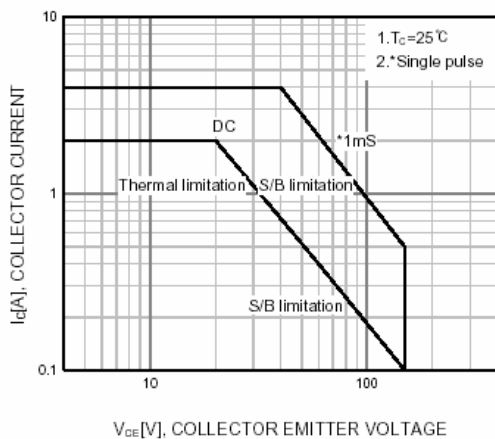


Figure 5. Safe Operating Area

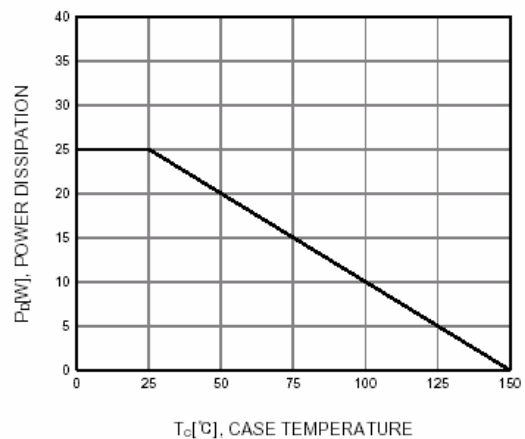


Figure 6. Power Derating