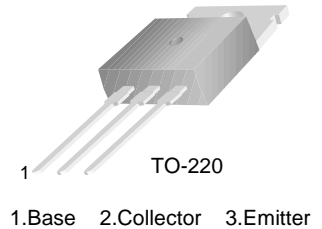


■■ APPLICATION: General Purpose Applications.

■■ MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CBO}	60	V
Collector-emitter voltage	V_{CEO}	60	V
Emitter-base voltage	V_{EBO}	7	V
Collector current	I_C	3	A
Collector Power Dissipation	P_C	2~30	W
Junction Temperature	T_J	150	$^{\circ}\text{C}$
Storage Temperature Range	T_{stg}	- 55~150	$^{\circ}\text{C}$


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

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h_{FE}	60		300		$V_{CE}=5V, I_C=500mA$
Collector Cut-off Current	I_{CBO}			100	μA	$V_{CB}=60V, I_E=0$
Emitter Cut-off Current	I_{EBO}			100	μA	$V_{EB}=7V, I_C=0$
Collector-Base Breakdown Voltage	BV_{CBO}	60			V	$I_C=1mA, I_E=0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	60			V	$I_C=50mA, I_B=0$
Emitter-Base Breakdown Voltage	BV_{EBO}	7			V	$I_E=1mA, I_C=0$
Base-Emitter Voltage	V_{BE}		0.7	1.0	V	$V_{CE}=5V, I_C=500mA$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		0.25	1.0	V	$I_C=2A, I_B=0.2A$
Gain bandwidth product	f_T		3.0		MHz	$I_C=500mA, V_{CE}=5V$
Common Base Output Capacitance	C_{ob}		35		PF	$V_{CB}=10V, I_E=0, f=1MHz$

■■ hFE Classification

Classification	O	Y	GR
h_{FE}	60~120	100~200	150~300