

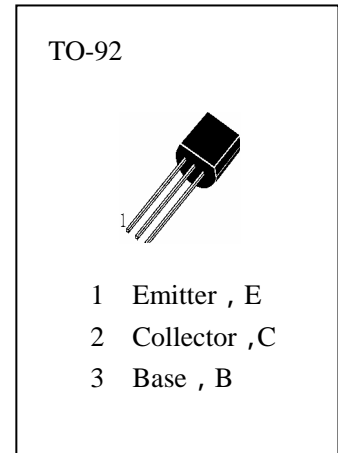


STROBE FLASH APPLICATIONS

MEDIUM POWER AMPLIFIER APPLICATIONS

ABSOLUTE MAXIMUM RATINGS ($T_a=25$)

- T_{stg} —Storage Temperature..... -55~150
- T_j —Junction Temperature.....150
- P_C —Collector Dissipation.....750mW
- V_{CBO} —Collector-Base Voltage.....30V
- V_{CEO} —Collector-Emitter Voltage.....10V
- V_{EBO} —Emitter-Base Voltage.....6V
- I_C —Collector Current.....2A
- I_{CP} —Collector Current (Pulse)5A



ELECTRICAL CHARACTERISTICS ($T_a=25$)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BVCBO	Collector-Base Breakdown Voltage	30			V	$I_C=100 \mu A, I_E=0$
BVCEO	Collector-Emitter Breakdown Voltage	10			V	$I_C=10mA, I_B=0$
BVEBO	Emitter-Base Breakdown Voltage	6			V	$I_E=1mA, I_C=0$
HFE(1)	DC Current Gain	140		600		$V_{CE}=-1V, I_C=-500mA$
HFE(2)		70				$V_{CE}=1V, I_C=2A$
$V_{CE(sat)}$	Collector- Emitter Saturation Voltage			0.5	V	$I_C=2A, I_B=50mA$
V_{BE}	Base-Emitter Voltage			1.5	V	$V_{CE}=1V, I_C=2A$
I_{CBO}	Collector Cut-off Current			100	nA	$V_{CB}=30V, I_E=0$
I_{CEO}	Collector Cut-off Current			100	nA	$V_{CE}=10V, I_B=0$
I_{EBO}	Emitter Cut-off Current			100	nA	$V_{EB}=6V, I_C=0$
f_T	Current Gain-Bandwidth Product		150		MHz	$V_{CE}=1V, I_C=0.5A$
C_{ob}	Output Capacitance		27		pF	$V_{CB}=10V, I_E=0, f=1MHz$

hFE Classification

Y	GR	BL
140—280	200—400	300—600

