

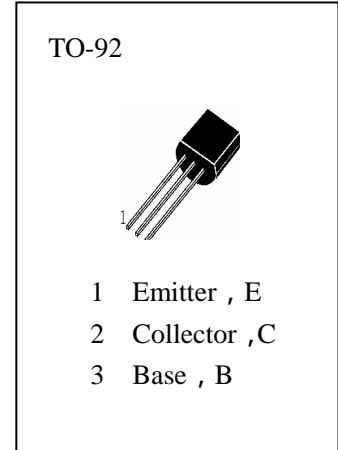


STROBE FLASH APPLICATIONS

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.....-20V
- $V_{CEO}$ —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	-20			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	$V_{CB}=-20V, I_E=0$
$I_{CEO}$	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		140		MHz	$V_{CE}=-1V, I_C=-0.5A$
$C_{ob}$	Output Capacitance		50		pF	$V_{CB}=-10V, I_E=0, f=1MHz$

**hFE Classification**

Y	GR	BL
140—280	200—400	300—600

