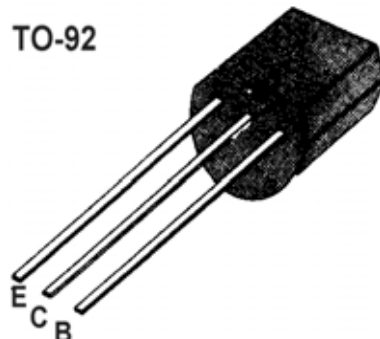


■■ **APPLICATION:** Audio Frequency Power Amplifier.
Medium Speed Switching.

■■ **MAXIMUM RATINGS** (Ta=25°C)

PARAMETER		SYMBOL	RATING	UNIT
Collector-base voltage		V _{CBO}	60	V
Collector-emitter voltage		V _{CEO}	50	V
Emitter-base voltage		V _{EBO}	6	V
Collector Current	Direct current	I _C	1	A
	Pulse current	I _{CP}	2	A
Collector Power Dissipation		P _C	0.75	W
Junction Temperature		T _j	150	°C
Storage Temperature Range		T _{stg}	-55~150	°C



■■ **ELECTRICAL CHARACTERISTICS** (Ta=25°C)

PARAMETER	SYMBOL	MIN	TYP.	MAX.	UNIT	TEST CONDITION
Collector-Base Breakdown Voltage	BV _{CBO}	60			V	I _C =50uA I _E =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	50			V	I _C =1mA I _B =0
Emitter-Base Breakdown Voltage	BV _{EBO}	6			V	I _E =50uA I _C =0
Collector Cut-off Current	I _{CBO}			0.1	uA	V _{CB} =60V I _E =0
Emitter Cut-off Current	I _{EBO}			0.1	uA	V _{EB} =6V I _C =0
Base-Emitter on Voltage	V _{BE(on)}	0.6		0.7	V	V _{CE} =2V I _C =50mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}		0.15	0.3	V	I _C =1A I _B =50mA
Base-Emitter Saturation Voltage	V _{BE(sat)}		0.9	1.2	V	I _C =1A I _B =50mA
DC Current Gain	h _{FE}	135		600	β	V _{CE} =2V I _C =0.1A
Transistion Frequency	f _T	100	160		MHz	V _{CE} =2V I _E =0.1A f=100MHz
Common Base Output Capacitance	C _{ob}		19		pF	V _{CB} =10 V I _E =0 f=1MHz
Turn on Time	t _{on}		0.07		us	V _{cc} =10V I _C =0.1A
Storage Time	t _{stg}		0.95		us	I _{B1} =I _{B2} =10mA
Fall Time	t _f		0.07		us	V _{BE(off)} = -2 ~ -3V

■■ **h_{FE} Classification And Marking**

Print Mark	L	K	U
Classification			
h _{FE}	135~270	200~400	300~600