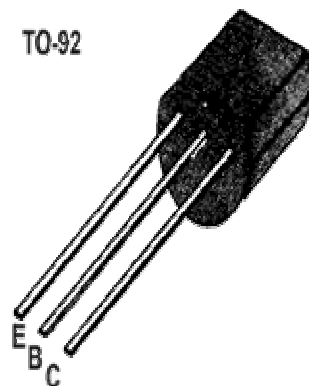


APPLICATION: Output Amplifier of Potable Radios in Class B Push-pull Operation.

MAXIMUM RATINGS (Ta=25°C)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V _{CBO}	-40	V
Collector-emitter voltage	V _{CEO}	-20	V
Emitter-base voltage	V _{EBO}	-5	V
Collector current	I _c	-500	mA
Collector Power Dissipation	P _c	600	mW
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
DC Current Gain	h _{FE}	64		300		V _{CE} = -1 V, I _c = -50 mA
Collector Cut-off Current	I _{CBO}			0.1	μA	V _{CB} =-25 V, I _E =0
Emitter Cut-off Current	I _{EBO}			0.1	μA	V _{EB} = -3 V, I _c =0
Collector-Base Breakdown Voltage	BV _{CBO}	-40			V	I _c =-0.1 mA, I _E =0
Collector-Emitter Breakdown Voltage	BV _{CEO}	-20			V	I _c =-1 mA, I _B =0
Emitter-Base Breakdown Voltage	BV _{EBO}	-5			V	I _E =- 0.1mA, I _c =0
Base-Emitter on Voltage	V _{BE(ON)}	-0.6	-0.67	-0.7	V	V _{CE} =-1 V, I _c = -10mA
Collector-Emitter Saturation Voltage	V _{CE(sat)}		-0.18	-0.6	V	I _c =-500 mA, I _B =-50 mA
Base-Emitter Saturation Voltage	V _{BE(sat)}		-0.95	-1.2	V	I _c =-500 mA, I _B =-50 mA

h_{FE} Classification

Classification	D	E	F	G	H	I
h _{FE}	64~91	78~112	96~135	112~166	144~202	200~300