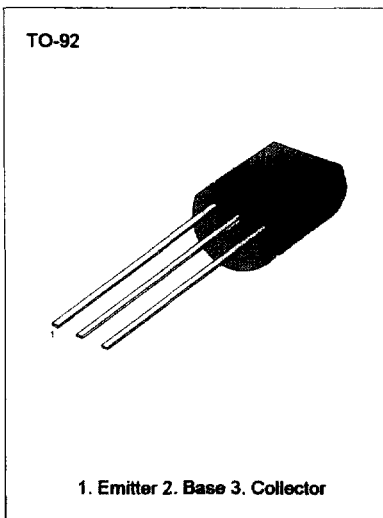


**2W OUTPUT AMPLIFIER OF PORTABLE  
RADIO IN CLASS  
B PUSH-PULL OPERATION.**

- Complimentary to SS8550
- Collector Current  $I_C=1.5A$
- Collector Dissipation:  $P_C=2W$  ( $T_C=25^\circ C$ )

**ABSOLUTE MAXIMUM RATINGS ( $T_A=25^\circ C$ )**

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CBO}$	40	V
Collector-Emitter Voltage	$V_{CEO}$	25	V
Emitter-Base Voltage	$V_{EBO}$	6	V
Collector Current	$I_C$	1.5	A
Collector Dissipation	$P_C$	1	W
Junction Temperature	$T_J$	150	$^\circ C$
Storage Temperature	$T_{STG}$	-65 ~ 150	$^\circ C$



3

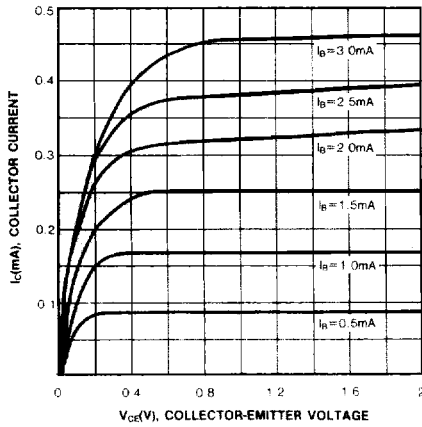
**ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ C$ )**

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Base Breakdown Voltage	$BV_{CBO}$	$I_C=100\mu A, I_E=0$	40			V
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	$I_C=2mA, I_B=0$	25			V
Emitter-Base Breakdown Voltage	$BV_{EBO}$	$I_E=100\mu A, I_C=0$	6			V
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=35V, I_E=0$			100	nA
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=6V, I_C=0$			100	nA
DC Current Gain	$h_{FE1}$	$V_{CE}=1V, I_C=5mA$	45	135		
	$h_{FE2}$	$V_{CE}=1V, I_C=100mA$	85	160	300	
	$h_{FE3}$	$V_{CE}=1V, I_C=800mA$	40	110		
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=800mA, I_B=80mA$		0.28	0.5	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=800mA, I_B=80mA$		0.98	1.2	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=1V, I_C=10mA$		0.66	1	V
Output Capacitance	$C_{OB}$	$V_{CB}=10V, I_E=0$ $f=1MHz$		9.0		pF
Current Gain-Bandwidth Product	$f_T$	$V_{CE}=10V, I_C=50mA$	100	190		MHz

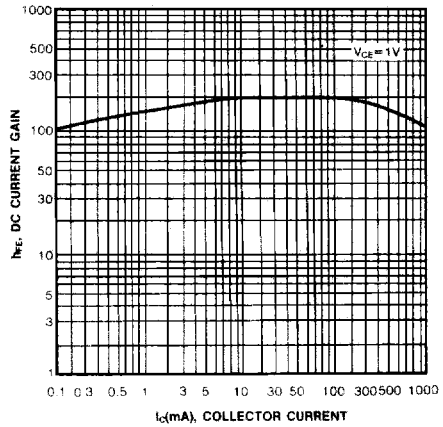
**$h_{FE}(2)$  CLASSIFICATION**

Classification	B	C	D
$h_{FE}(2)$	85-160	120-200	160-300

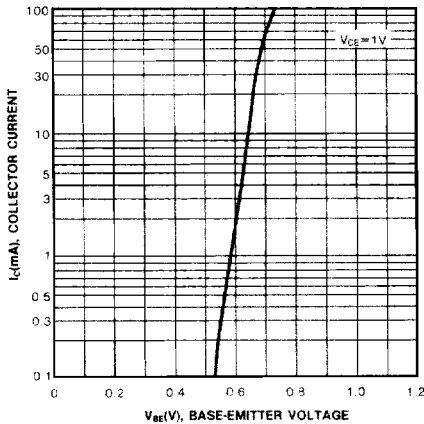
STATIC CHARACTERISTIC



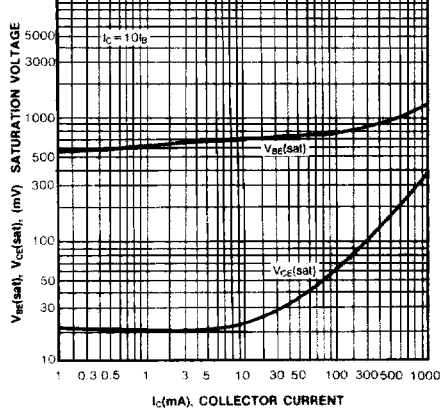
DC CURRENT GAIN



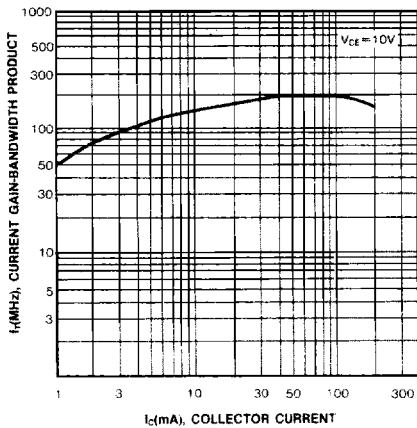
BASE-EMITTER ON VOLTAGE



BASE-EMITTER SATURATION VOLTAGE  
COLLECTOR-EMITTER SATURATION VOLTAGE



CURRENT GAIN-BANDWIDTH PRODUCT



COLLECTOR OUTPUT CAPACITANCE

