

2W OUTPUT AMPLIFIER OF PORTABLE

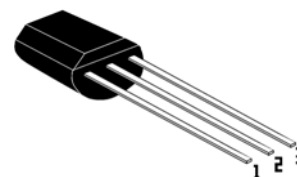
RADIOS IN CLASS

B PUSH-PULL OPERATION

- * Complement to 8050
- * Collector Current : $I_c = -1.2A$
- * Collector Dissipation $P_c = 1W$ ($T_a = 25^{\circ}C$)

ABSOLUTE MAXIMUM RATINGS at $T_{amb} = 25^{\circ}C$

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	-1200	mA
Collector Dissipation	P_c	1000	mW
Junction Temperature	T_j	150	$^{\circ}C$
Storage Temperature	T_{stg}	-65~150	$^{\circ}C$



- 1: Emitter
2: Collector
3: Base

ELECTRICAL CHARACTERISTICS at $T_{amb} = 25^{\circ}C$

Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV_{cbo}	-40			V	$I_c = -100\mu A$ $I_e = 0$
Collector-Emitter Breakdown Voltage	BV_{ceo}	-25			V	$I_c = -2mA$ $I_b = 0$
Emitter-Base Breakdown Voltage	BV_{ebo}	-6			V	$I_e = -100\mu A$ $I_c = 0$
Collector Cutoff Current	I_{cbo}			-100	nA	$V_{cb} = -35V$ $I_e = 0$
Emitter Cutoff Current	I_{ebo}			-100	nA	$V_{eb} = -6V$ $I_c = 0$
DC Current Gain	H_{fe1}	45				$V_{ce} = -1V$ $I_c = -5mA$
DC Current Gain	H_{fe2}	85	160	300		$V_{ce} = -1V$ $I_c = -100mA$
DC Current Gain	H_{fe3}	30				$V_{ce} = -1V$ $I_c = -800mA$
Collector-Emitter Saturation Voltage	$V_{ce(sat)}$		-0.28	-0.5	V	$I_c = -800mA$ $I_b = -80mA$
Base-Emitter Saturation Voltage	$V_{be(sat)}$		-0.98	-1.2	V	$I_c = -800mA$ $I_b = -80mA$
Base-Emitter Voltage	V_{be}		-0.66	-1	V	$V_{ce} = -1V$ $I_c = -10mA$
Output Capacitance	C_{ob}		15		pF	$V_{cb} = -10V$ $I_e = 0$ $f = 1MHz$
Current Gain-Bandwidth Product	f_T	100	200		MHz	$V_{ce} = -10V$ $I_c = -50mA$

CLASSIFICATION HFE

Classification	B	C	D
H_{fe2}	85-160	120-200	160-300