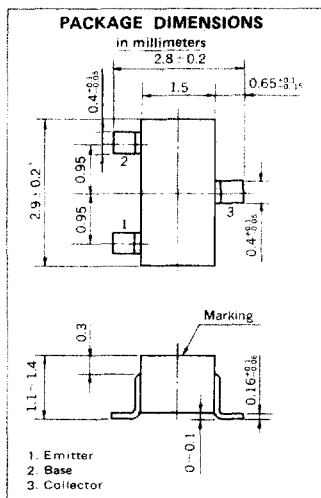


HIGH VOLTAGE AMPLIFIER AND SWITCHING
PNP SILICON EPITAXIAL TRANSISTOR
MINI MOLD



FEATURES

- High Voltage: $V_{CE0} = -200$ V
- High DC Current Gain: $h_{FE} = 90$ to 450
- Complementary to 2SC3360

ABSOLUTE MAXIMUM RATINGS

Maximum Voltages and Current ($T_a = 25^\circ\text{C}$)

Collector to Base Voltage	V_{CBO}	-200	V
Collector to Emitter Voltage	V_{CEO}	-200	V
Emitter to Base Voltage	V_{EBO}	-5	V
Collector Current (DC)	I_C	-100	mA

Maximum Power Dissipation

Total Power Dissipation at 25°C Ambient Temperature	P_T	200	mW
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Maximum Temperatures

Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to +150	$^\circ\text{C}$

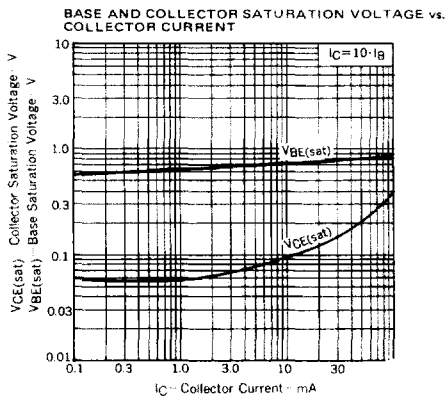
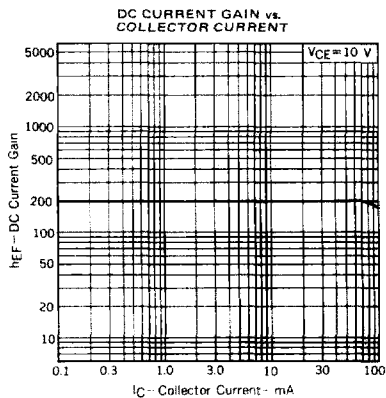
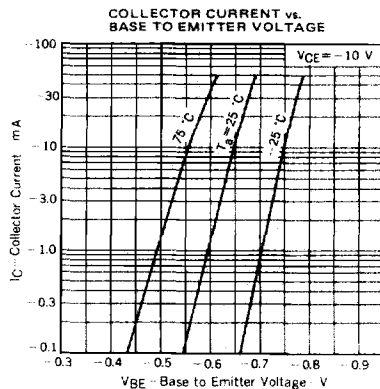
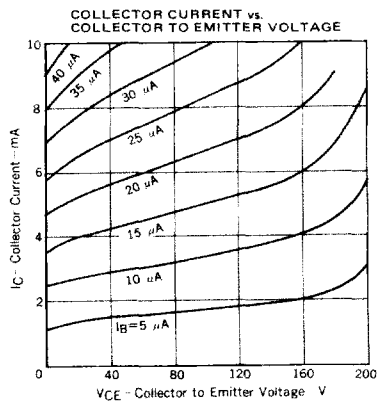
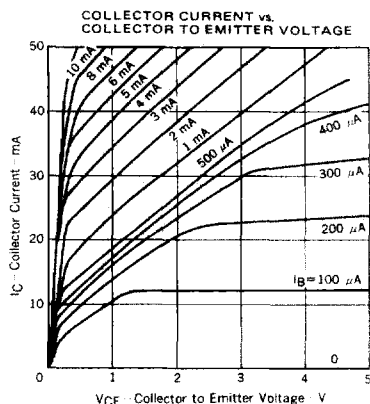
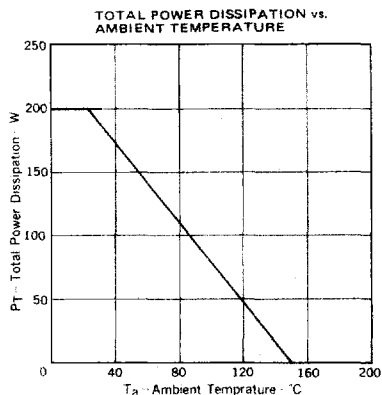
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Collector Cutoff Current	I_{CBO}			-100	nA	$V_{CB} = -200$ V, $I_E = 0$
Emitter Cutoff Current	I_{EBO}			-100	nA	$V_{EB} = -5$ V, $I_C = 0$
DC Current Gain	h_{FE1}	90	200	450		$V_{CE} = -10$ V, $I_C = -10$ mA
DC Current Gain	h_{FE2}	50	195			$V_{CE} = -10$ V, $I_C = -50$ mA
Base to Emitter Voltage	V_{BE}	-0.6	-0.65	-0.7	V	$V_{CE} = -10$ V, $I_C = -10$ mA
Collector Saturation Voltage	$V_{CE(sat)}$		-0.21	-0.3	V	$I_C = -50$ mA, $I_B = -5.0$ mA
Base Saturation Voltage	$V_{BE(sat)}$		-0.8	-1.2	V	$I_C = -50$ mA, $I_B = -5.0$ mA
Gain Bandwidth Product	f_T		120		MHz	$V_{CE} = -10$ V, $I_E = 10$ mA
Output Capacitance	C_{ob}		3.6		pF	$V_{CB} = -30$ V, $I_E = 0$, $f = 1.0$ MHz
Turn-on Time	t_{on}		0.16		μs	$V_{CC} = -10$ V, $V_{BE(off)} = 2.5$ V
Storage Time	t_{stg}		1.3		μs	$I_C = -10$ mA
Turn-off Time	t_{off}		0.18		μs	$I_{B1} = -I_{B2} = -1.0$ mA

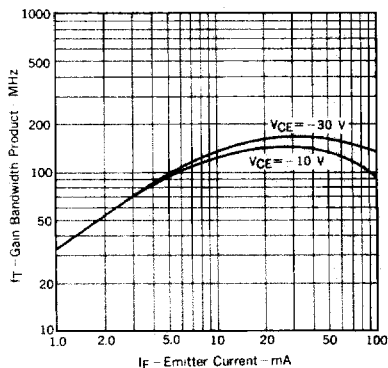
* Pulsed: $PW \leq 350$ μs , Duty Cycle $\leq 2\%$

h_{FE} Classification

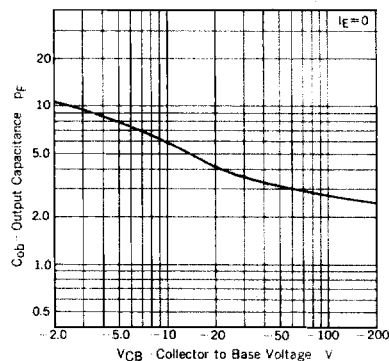
Marking	O5	O6	O7
h_{FE1}	90 to 180	135 to 270	200 to 450

TYPICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

GAIN BANDWIDTH PRODUCT vs.
EMITTER CURRENT



OUTPUT CAPACITANCE vs.
COLLECTOR TO BASE VOLTAGE



SWITCHING TIME vs.
COLLECTOR CURRENT

