

2SA1941

Transistor Silicon PNP Epitaxial Type

Power Amplifier Applications

FEATURES

- * High collector voltage: $V_{ce} = -140V$ (min)
- * Recommended for 70W high-fidelity audio
Frequency amplifier output
- * Complementary to 2SC5198



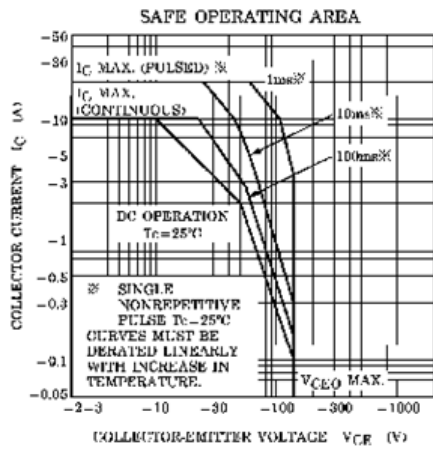
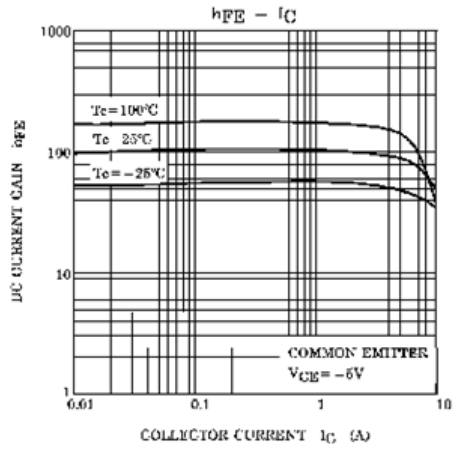
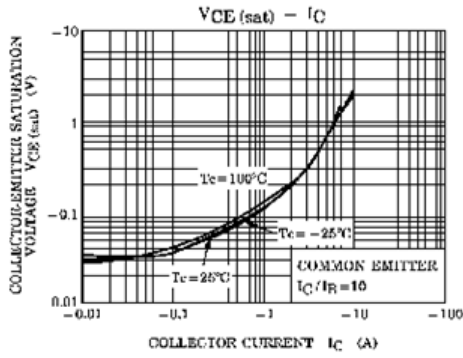
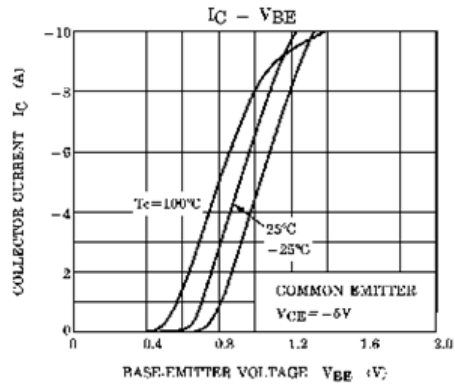
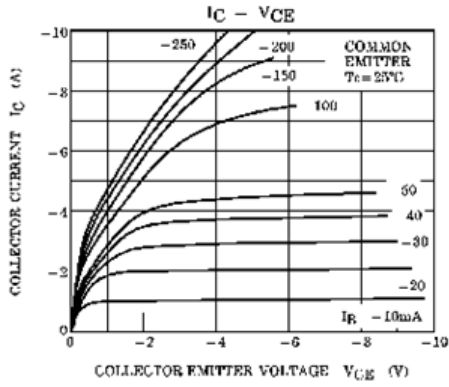
MAXIMUM RATINGS ($T_a = 25^\circ C$)

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-140	V
Collector-Emitter Voltage	V_{CEO}	-140	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector current	I_C	-10	A
Base current	I_B	-1	A
Collector Power Dissipation	P_C	100	W
Junction Temperature	T_J	150	$^\circ C$
Collector-Base Voltage	T_{stg}	-55to+150	$^\circ C$

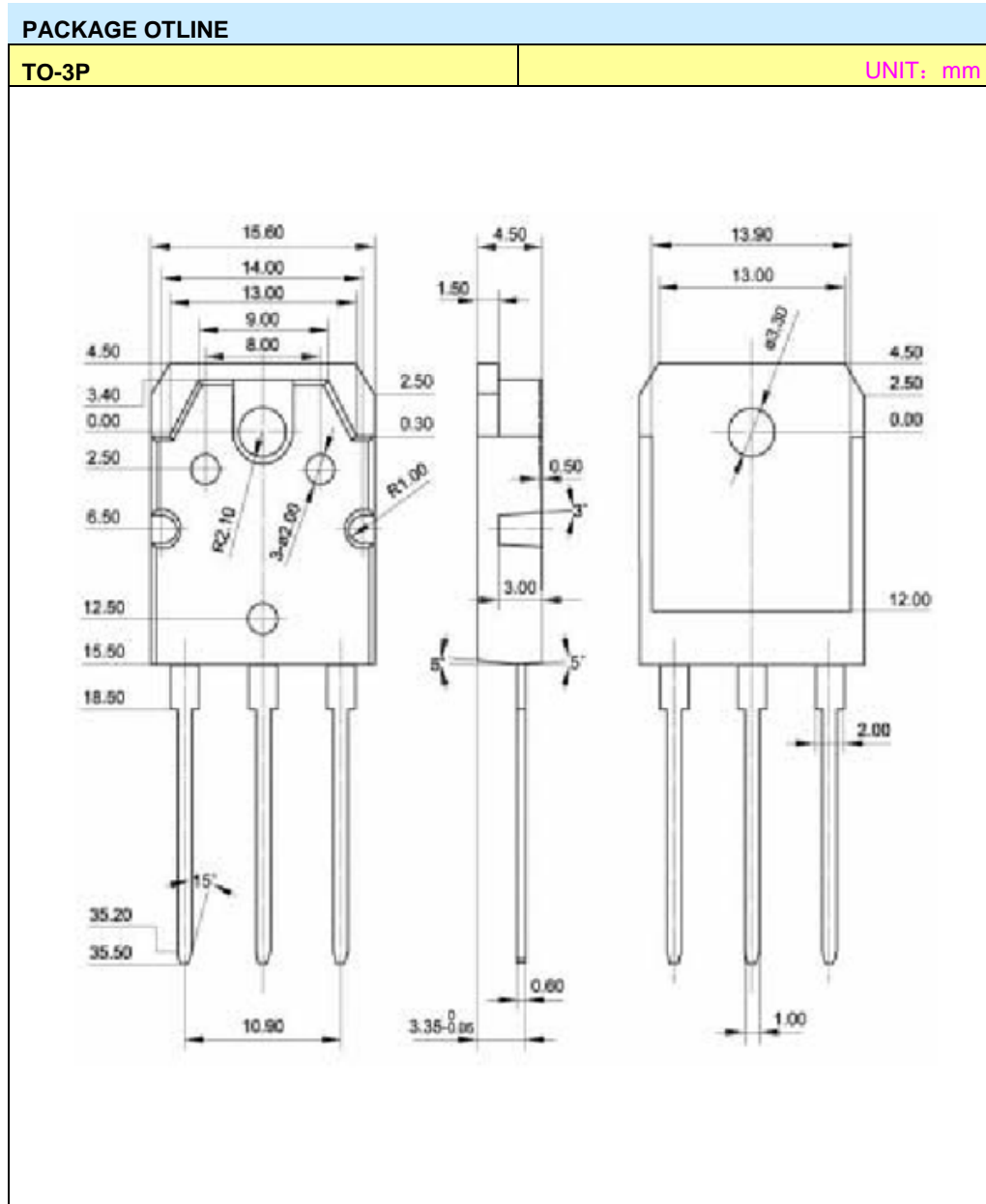
ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ C$)

Characteristics	Symbol	Test conditions	Min	Typ	Max.	Unit
Collector Cut-off Current	I_{CBO}	$V_{cb} = -140V, I_e = 0$			-5.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{eb} = -5V, I_c = 0$			-5.0	μA
Collector-Emitter Breakdown Voltage	V_{CEO}	$I_c = -50mA, I_b = 0$	-140			V
DC Current Gain	h_{fe1}	$V_{ce} = -5V, I_c = -1.0A$	55		160	
	h_{fe2}	$V_{ce} = -5V, I_c = -5A$	35			
Saturation Voltage	Collector- Emitter	V_{CESAT}	$I_c = -7A, I_b = -0.7A$		-2.0	V
Base-Emitter Voltage	V_{be}	$V_{ce} = -5V, I_c = -5A$			-1.5	V
Transition Frequency	f_T	$V_{ce} = -5V, I_c = -1A$		30		MHZ
Collector Output Capacitance	C_{ob}	$V_{ce} = -10V, I_e = 0, f = 1MHz$		320		pF

TYPICAL PERFORMANCE CHARACTERISTICS



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ELECTROSTATIC DISCHARGE CAUTION



These devices have limited built-in ESD protection. The leads should be shorted together or the device placed in conductive foam during storage handling to prevent electrostatic damage to the device.

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