

2SC5198

Transistor Silicon NPN Epitaxial Type

Power Amplifier Applications

FEATURES

- * High collector voltage: $V_{ce0}=140V(\text{min})$
- * Recommended for 70W high-fidelity audio
Frequency amplifier output
- * Complementary to 2SA1941



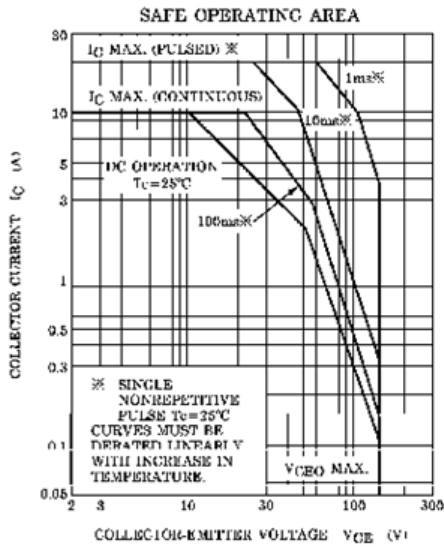
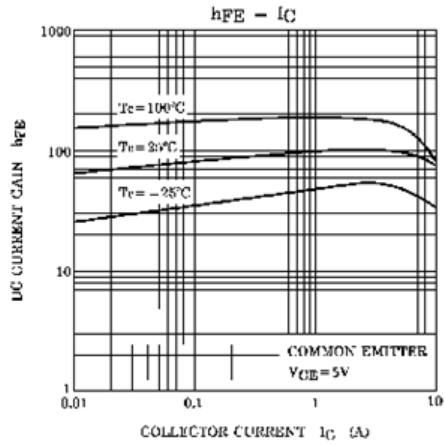
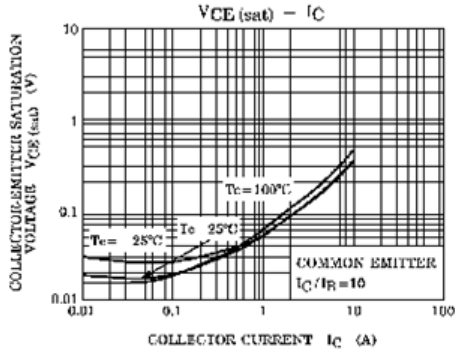
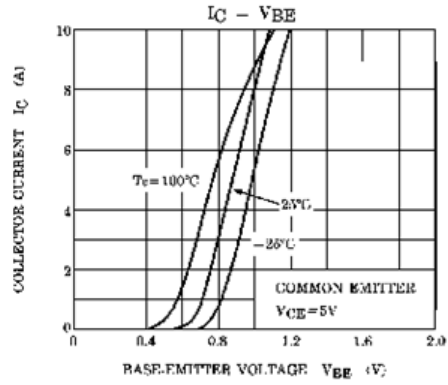
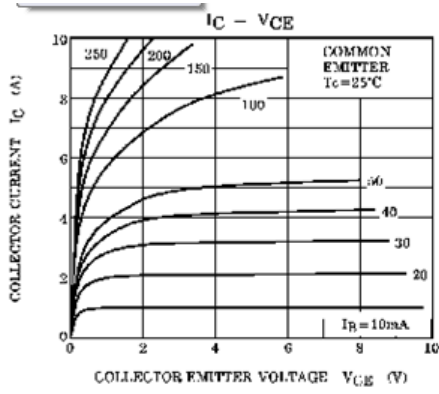
MAXIMUM RATINGS (Ta=25°C)

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	°C
Collector-Base Voltage	T_{stg}	-55to+150	°C

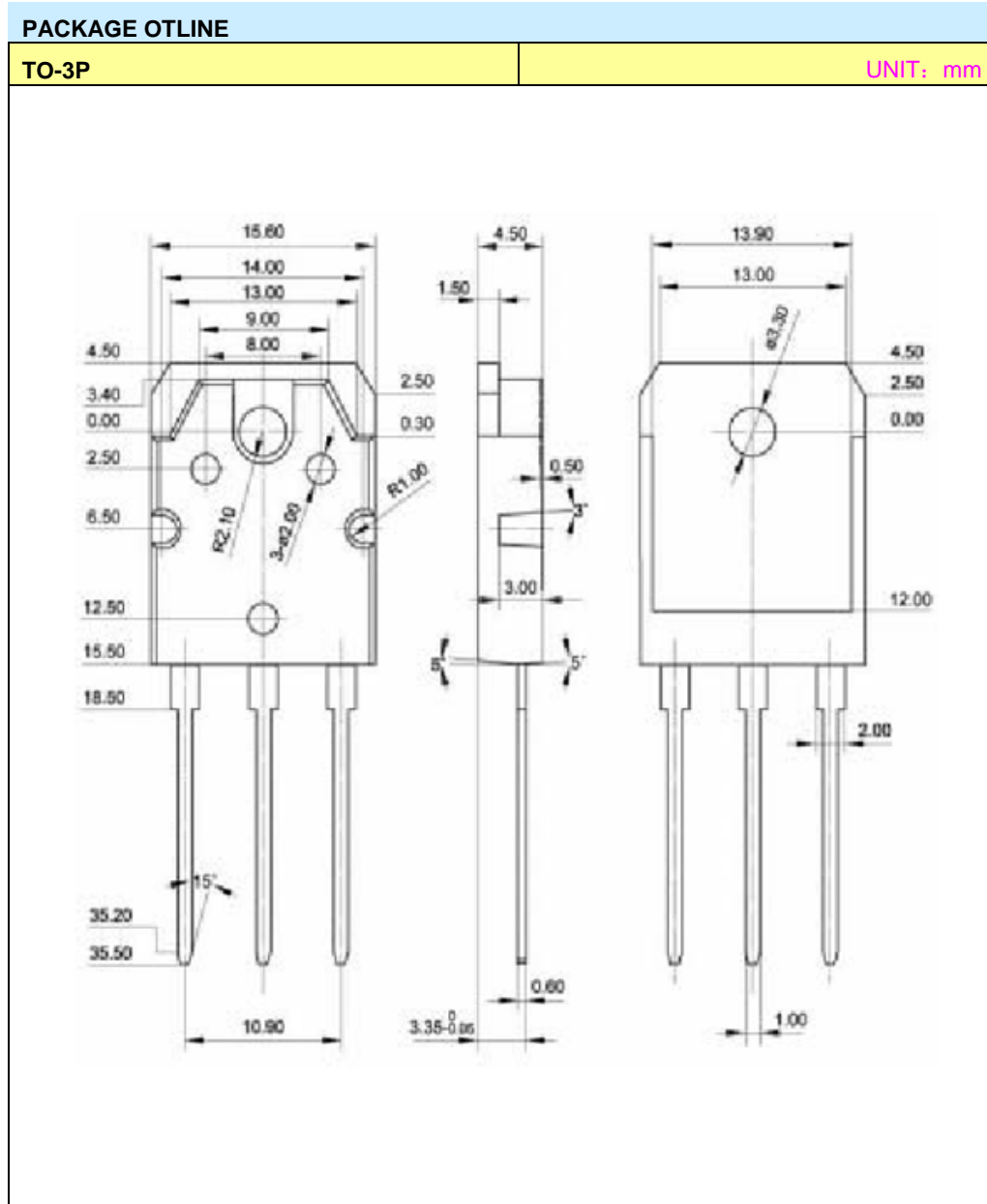
ELECTRICAL CHARACTERISTICS (Ta=25°C)

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}			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}	$V_{ce}=-10V, I_e=0, f=1MHZ$		170		pF

TYPICAL PERFORMANCE CHARACTERISTICS



2SC5198



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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