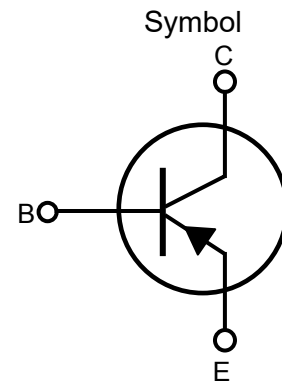


■ Product characteristics

$V_{CB0}$	-140V
$V_{CE0}$	-140V
$I_C$	-10A

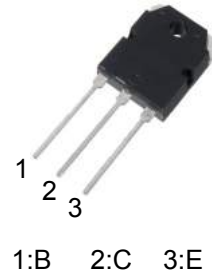


■ Applications

High-Fidelity Audio Output Amplifier  
General Purpose Power Amplifier

■ Features

High Voltage :  $V_{CE0} = -140V$   
Complement to 2SC5198  
Output Stage



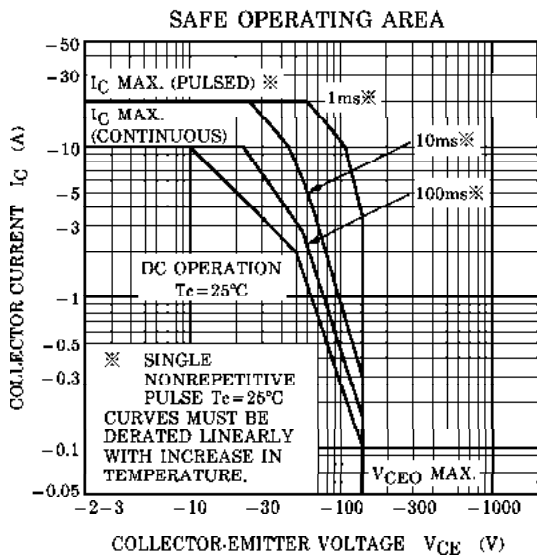
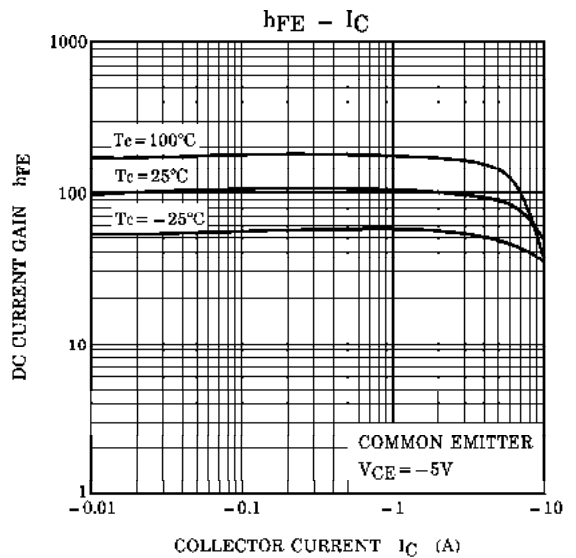
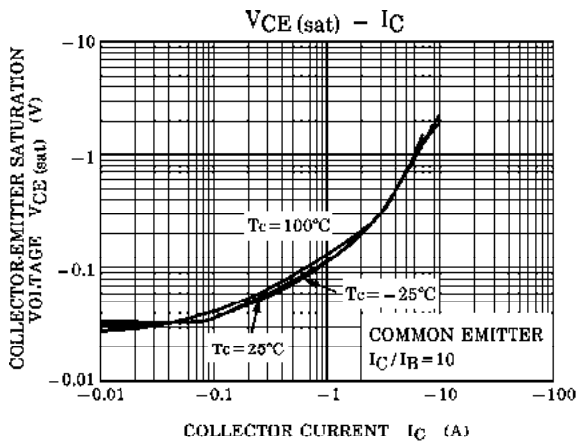
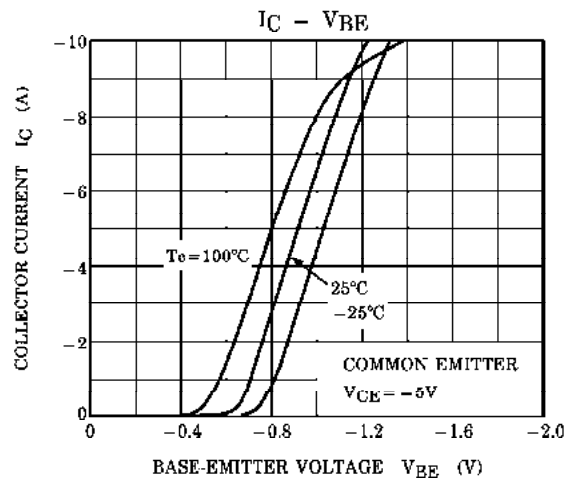
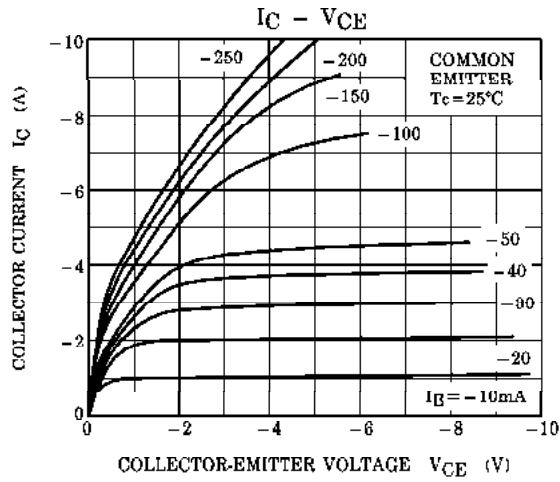
■ Absolute Maximum Ratings ( $T_c=25^\circ C$  unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector-base voltage	$V_{CB0}$	-140	V
Collector emitter voltage	$V_{CE0}$	-140	V
Emitter-base voltage	$V_{EBO}$	-5	V
Collector current	$I_C$	-10	A
Base current	$I$	-1	A
Collector power dissipation	$P_D$	100	W
Operating junction temperature	$T_J$	+150	$^\circ C$
Storage temperature	$T_{SGT}$	-40-+150	$^\circ C$

■ Electrical Characteristics ( $T_c=25^\circ C$  unless otherwise specified)

Parameter	Symbol	Test condition	Min	Typ	Max	Unit
Collector cut-off current	$I_{CB0}$	$V_{CB} = -140V, I_E = 0V$	-	-	5	$\mu A$
Emitter cut-off current	$I_{EBO}$	$V_{EB} = 5V, I_C = 0V$	-	-	5	$\mu A$
Collector-Emitter Breakdown Voltage	$BV_{CE0}$	$I_E = -50mA, I_B = 0$	-140	-	-	V
DC Current Gain	$h_{FE1}$	$V_{CE} = -5V, I_C = -1A$	55	-	160	
DC Current Gain	$h_{FE2}$	$V_{CE} = -5V, I_C = -5A$	35	83	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -7A, I_B = -0.7A$	-	-0.8	-2.0	V
Base-Emitter On Voltage	$V_{BE(on)}$	$V_{CE} = -5V, I_C = -5A$	-	-1.0	-1.5	V
Current Gain Bandwidth Product	$f_T$	$V_{CE} = -5V, I_C = -1A$	-	30	-	MHz
Output Capacitance	$C_{ob}$	$V_{CB} = -10V, f = 1MHz$	-	320	-	pF

■ Typical Performance Characteristics



■ TO-3PN Package mechanical data

