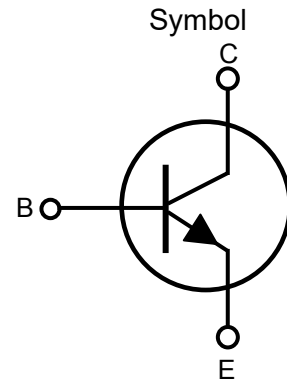


■ Product characteristics

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

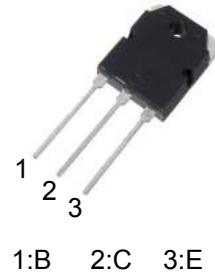


■ Applications

High-Fidelity Audio Output Amplifier
General Purpose Power Amplifier

■ Features

High Voltage : $V_{CE0} = 140V$
Complement to 2SA1941



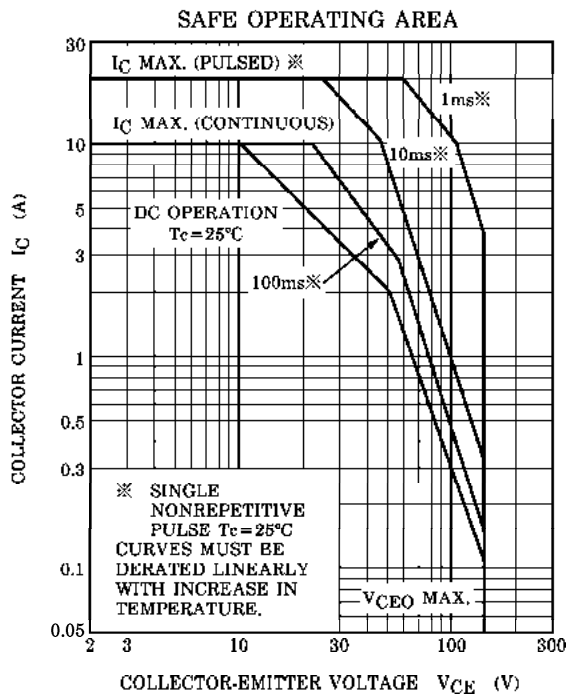
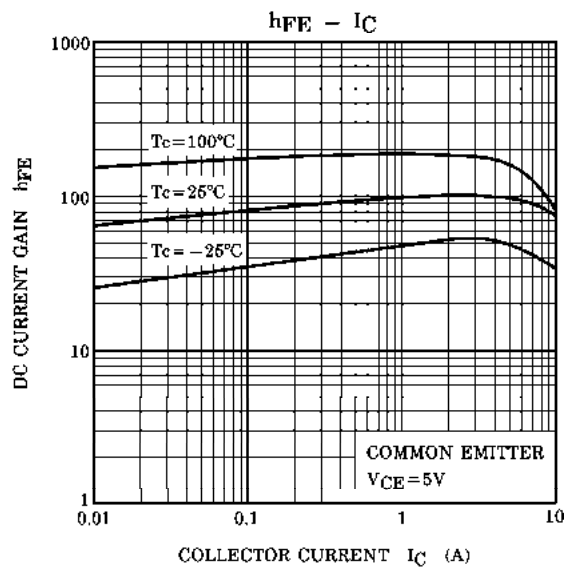
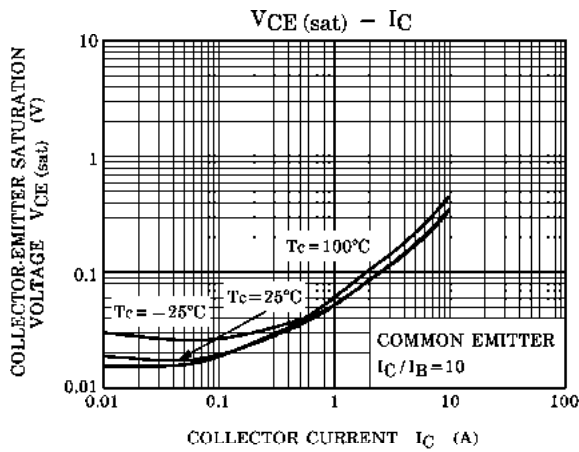
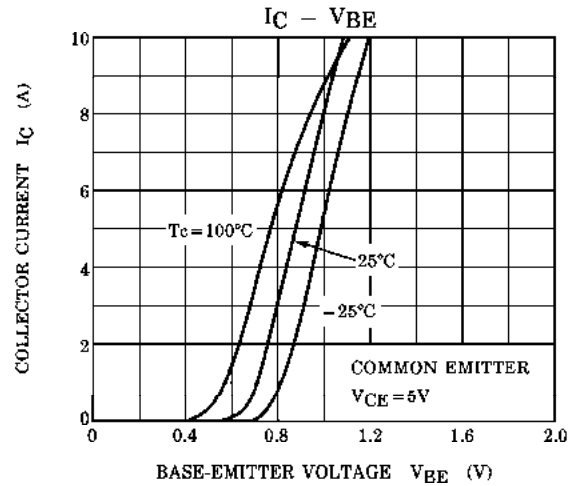
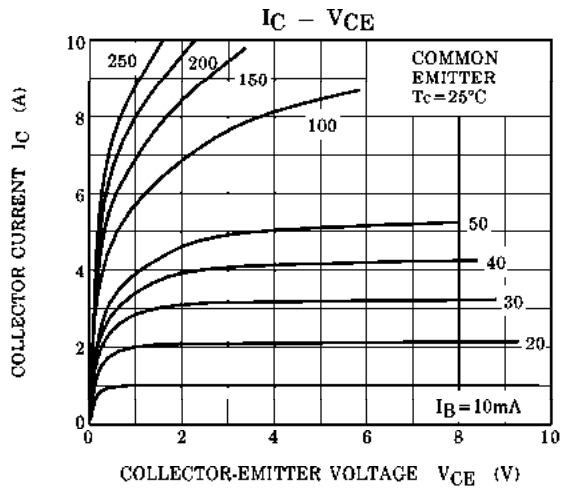
■ Absolute Maximum Ratings ($T_c=25^\circ C$ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CB0}	140	V
Collector emitter voltage	V_{CE0}	140	V
Emitter-base voltage	V_{EB0}	5	V
Collector current	I_C	10	A
Base current	I_B	1	A
Collector power dissipation	P	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	μA
Emitter cut-off current	I_{EB0}	$V_{EB}=5V, I_C=0V$	-	-	5	μA
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	$V_{CE(sat)}$	$I_C=7A, I_B=0.7A$	-	0.3	2.0	V
Base-Emitter On Voltage	$V_{BE(on)}$	$V_{CE}=5V, I_C=5A$	-	0.9	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

