

■ Product characteristics

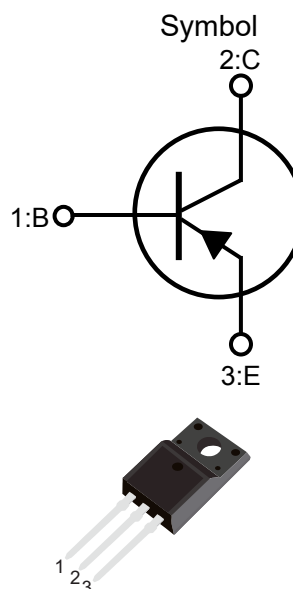
V_{CBO}	-230V
V_{CEO}	-230V
I_C	-1A

■ Applications

High-Fidelity Audio Output Amplifier
General Purpose Power Amplifier

■ Features

High Voltage : $V_{CEO} = -230V$
Complement to 2SC4793



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

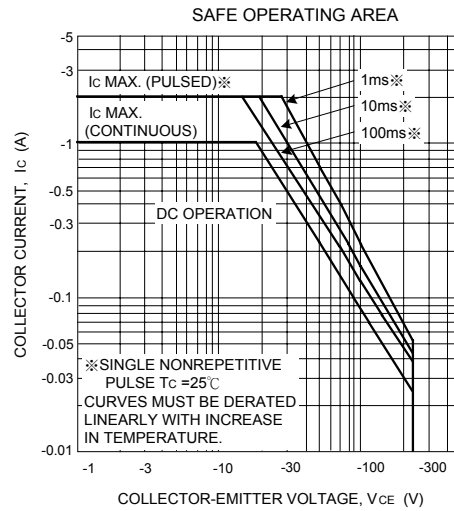
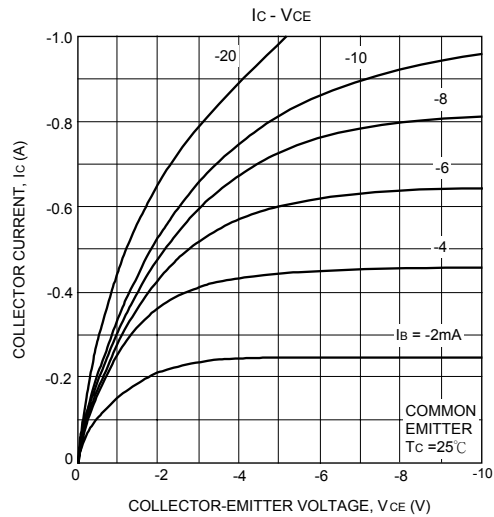
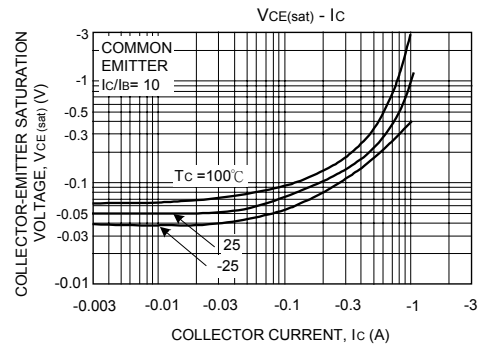
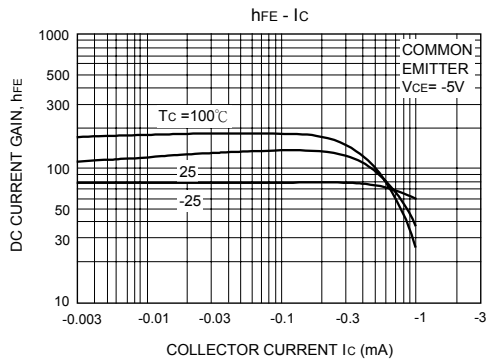
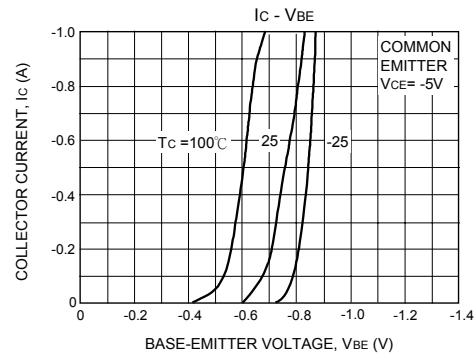
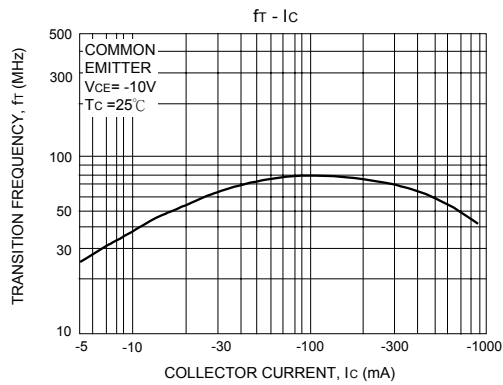
PARAMETER		SYMBOL	RATINGS	UNIT
Collector-Base Voltage		V_{CBO}	-230	V
Collector-Emitter Voltage		V_{CEO}	-230	V
Emitter-Base Voltage		V_{EBO}	-5	V
Collector Current		I_C	-1	A
Base Current		I_B	-0.1	A
Collector Power Dissipation	$T_a=25^\circ\text{C}$	P_C	2.0	W
	$T_c=25^\circ\text{C}$		20	W
Junction Temperature		T_J	+150	$^\circ\text{C}$
Storage Temperature Range		T_{STG}	-55 ~ +150	$^\circ\text{C}$

Note: Absolute maximum ratings are those values beyond which the device could be permanently damaged.
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C = -10\text{mA}$, $I_B = 0$	-230			V
Base -Emitter Voltage	V_{BE}	$V_{CE} = -5V$, $I_C = -500\text{mA}$			-1	V
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C = -500\text{mA}$, $I_B = -50\text{mA}$			-1.5	V
Collector Cut-off Current	I_{CBO}	$V_{CB} = -230V$, $I_E = 0$			-1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -5V$, $I_C = 0$			-1.0	μA
DC Current Gain	h_{FE}	$V_{CE} = -5V$, $I_C = -100\text{mA}$	100		320	
Transition Frequency	f_T	$V_{CE} = -10V$, $I_C = -100\text{mA}$		70		MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V$, $I_E = 0$, $f = 1\text{MHz}$		30		pF

■ Typical Performance Characteristics



Technical drawing of a mechanical part, showing front, top, and side views with dimensions.

Front View Dimensions:

- Overall width: 10.06 ± 0.15
- Overall height: 15.87 ± 0.15
- Top flange width: 7.00 ± 0.15
- Top flange thickness: 3.30
- Central hole diameter: $3 - \phi 1.50$
- Central hole depth: 0.15
- Top flange hole diameter: 1.80
- Top flange hole depth: 1.80 ± 0.1
- Bottom flange width: 8.0
- Bottom flange thickness: 4.90
- Bottom flange hole diameter: 1.80 ± 0.1
- Bottom flange hole depth: 0.15
- Bottom flange hole radius: $R0.5$
- Bottom flange hole depth: 6.10 ± 0.1
- Bottom flange hole depth: 6.47
- Bottom flange hole depth: 12.93 ± 0.3
- Bottom flange hole depth: $3 - 1.38 \pm 0.1$
- Bottom flange hole depth: 0.80
- Bottom flange hole depth: 2.54
- Bottom flange hole depth: 2.54
- Bottom flange hole depth: (9.75)
- Bottom flange hole depth: (3.18)

Top View Dimensions:

- Overall width: 10.06 ± 0.15
- Overall height: 15.87 ± 0.15
- Top flange width: 7.00 ± 0.15
- Top flange thickness: 3.30
- Central hole diameter: $3 - \phi 1.50$
- Central hole depth: 0.15
- Top flange hole diameter: 1.80
- Top flange hole depth: 1.80 ± 0.1
- Bottom flange width: 8.0
- Bottom flange thickness: 4.90
- Bottom flange hole diameter: 1.80 ± 0.1
- Bottom flange hole depth: 0.15
- Bottom flange hole radius: $R0.5$
- Bottom flange hole depth: 6.10 ± 0.1
- Bottom flange hole depth: 6.47
- Bottom flange hole depth: 12.93 ± 0.3
- Bottom flange hole depth: $3 - 1.38 \pm 0.1$
- Bottom flange hole depth: 0.80
- Bottom flange hole depth: 2.54
- Bottom flange hole depth: 2.54
- Bottom flange hole depth: (9.75)
- Bottom flange hole depth: (3.18)

Side View Dimensions:

- Overall width: 4.70 ± 0.1
- Overall height: 6.68 ± 0.1
- Top flange thickness: 2.54 ± 0.15
- Top flange hole diameter: 1.80
- Top flange hole depth: 1.80 ± 0.1
- Bottom flange width: 8.0
- Bottom flange thickness: 4.90
- Bottom flange hole diameter: 1.80 ± 0.1
- Bottom flange hole depth: 0.15
- Bottom flange hole radius: $R0.5$
- Bottom flange hole depth: 6.10 ± 0.1
- Bottom flange hole depth: 6.47
- Bottom flange hole depth: 12.93 ± 0.3
- Bottom flange hole depth: $3 - 1.38 \pm 0.1$
- Bottom flange hole depth: 0.80
- Bottom flange hole depth: 2.54
- Bottom flange hole depth: 2.54
- Bottom flange hole depth: (9.75)
- Bottom flange hole depth: (3.18)