



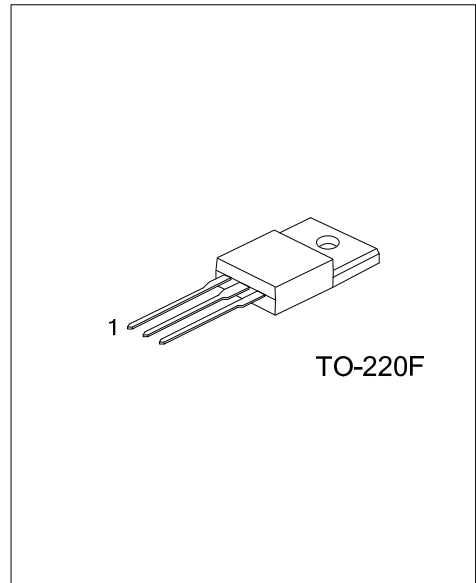
2SC4793

NPN SILICON TRANSISTOR

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FEATURES

- *High transition frequency
- *Power amplifier applications
- *Driver stage amplifier applications



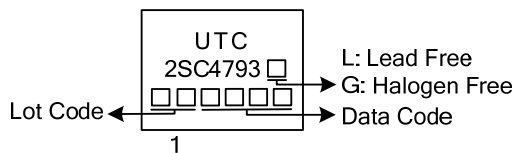
ORDERING INFORMATION

Order Number		Package	Pin Assignment			Packing
Lead Free	Halogen Free		1	2	3	
2SC4793L-x-TF3-T	2SC4793G-x-TF3-T	TO-220F	B	C	E	Tube

Note: Pin Assignment: B: Base C: Collector E: Emitter

<p>2C4793L-x-TF3-T</p>	<p>(1) Packing Type</p> <p>(2) Package Type</p> <p>(3) Rank</p> <p>(4) Green Package</p>	<p>(1) T: Tube</p> <p>(2) TF3: TO-220F</p> <p>(3) refer to Classification of h_{FE}</p> <p>(4) L: Lead Free, G: Halogen Free and Lead Free</p>
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MARKING



■ ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$)

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.

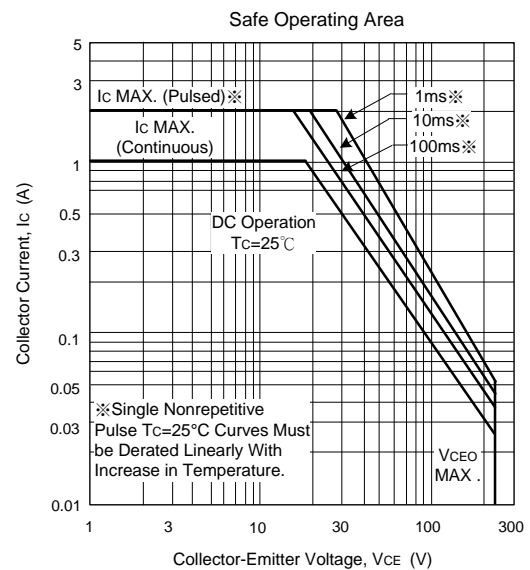
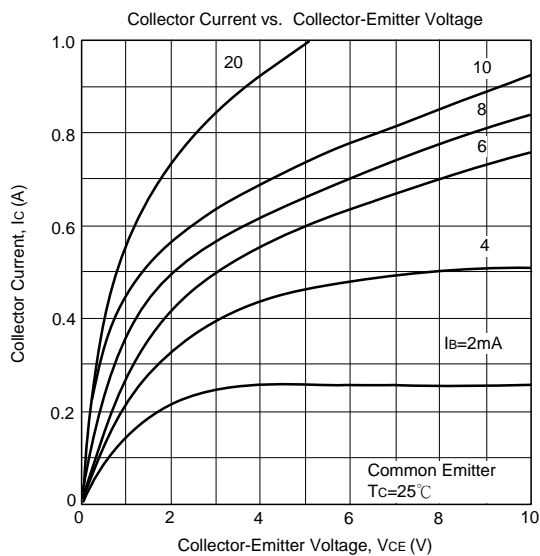
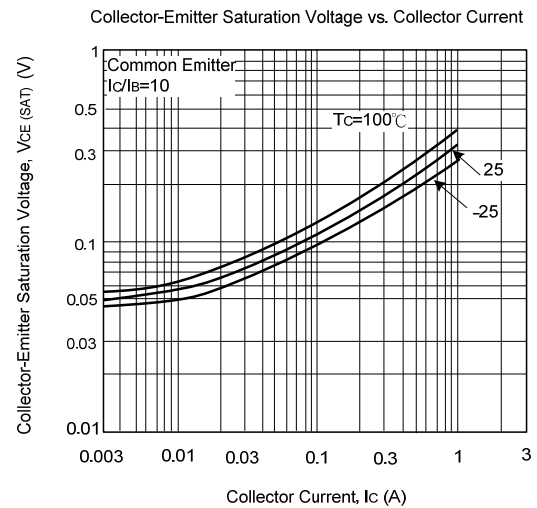
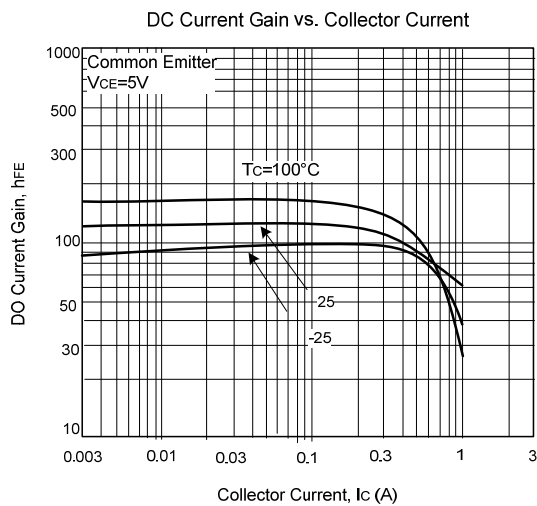
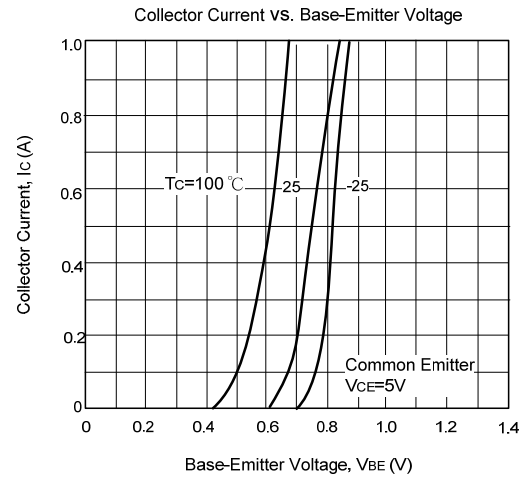
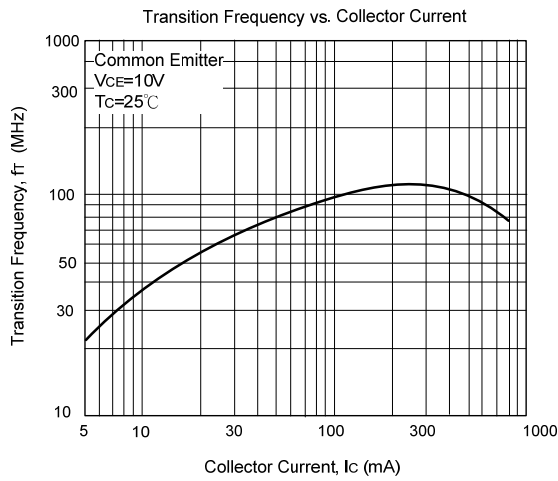
■ ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$, unless others specified)

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}	$V_{CE}=5\text{V}$, $I_C=500\text{mA}$			1.0	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}	$V_{CB}=230\text{V}$, $I_E=0$			1.0	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB}=5\text{V}$, $I_C=0$			1.0	μA
DC Current Gain	h_{FE}	$V_{CE}=5\text{V}$, $I_C=100\text{mA}$	100		320	
Transition Frequency	f_T	$V_{CE}=10\text{V}$, $I_C=100\text{mA}$		100		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10\text{V}$, $I_E=0$, $f=1\text{MHz}$		20		pF

■ CLASSIFICATION OF h_{FE}

RANK	A	B
RANGE	100-200	180-320

TYPICAL CHARACTERISTICS



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