



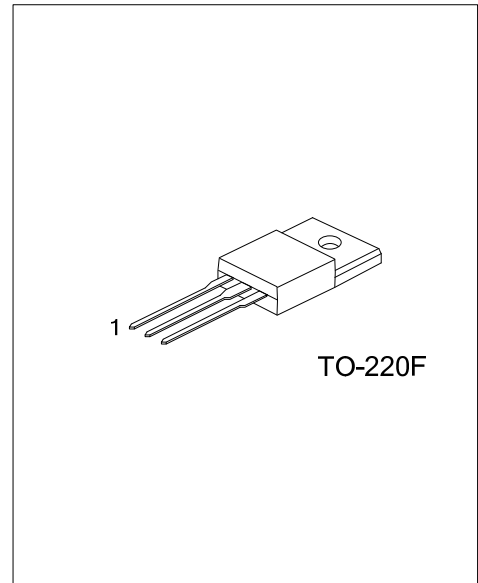
## 2SC4793

## NPN SILICON TRANSISTOR

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#### FEATURES

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



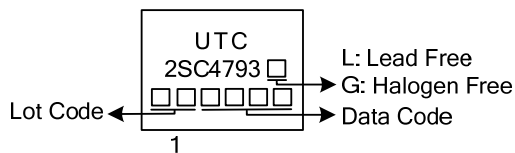
#### ORDERING INFORMATION

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 <math>h_{FE}</math></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	$P_C$	$T_A=25^\circ\text{C}$	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.

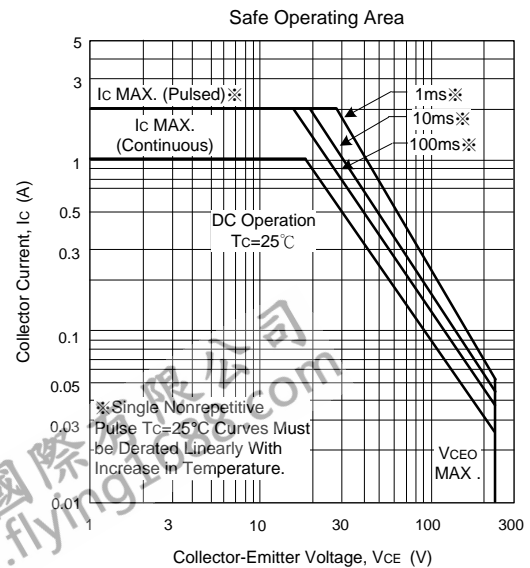
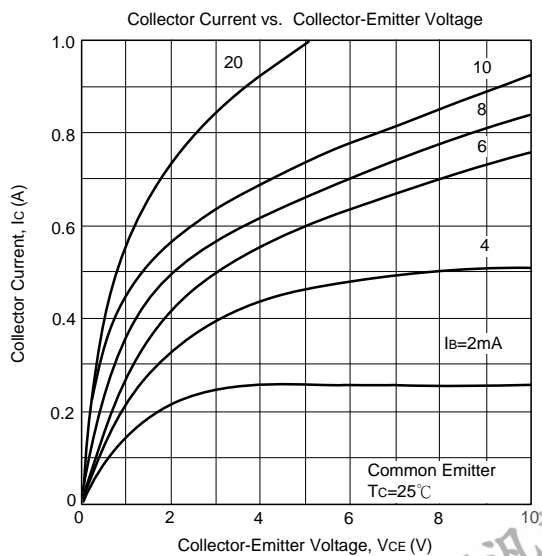
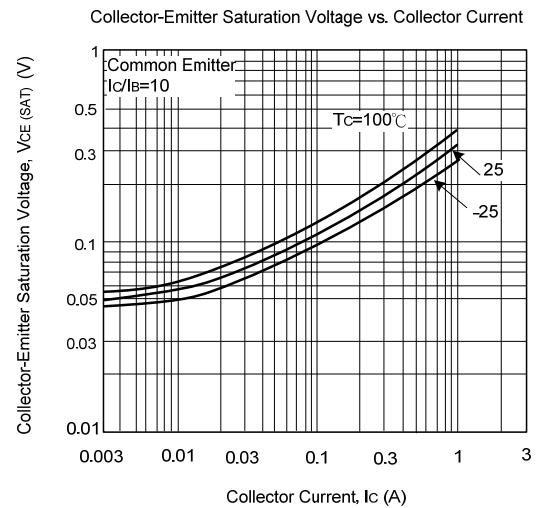
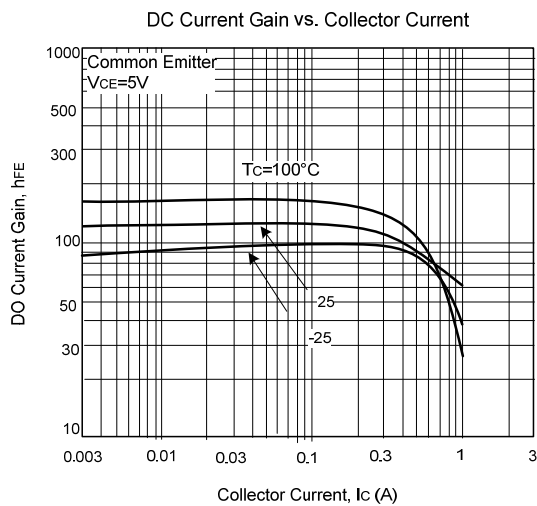
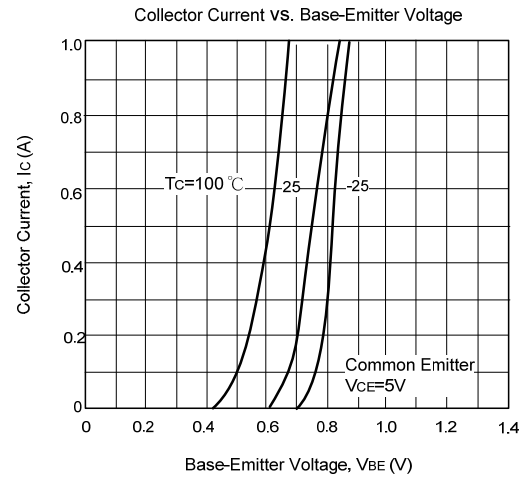
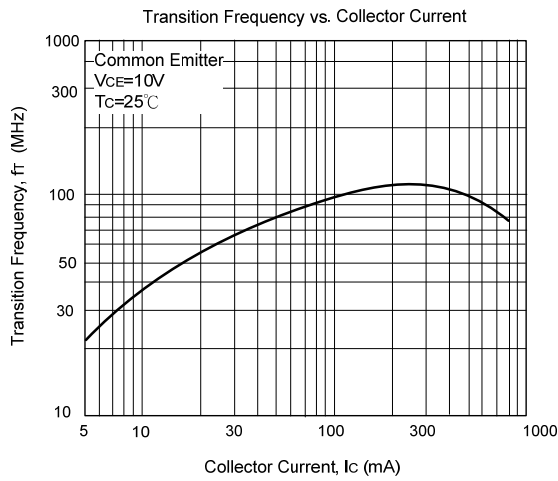
■ ELECTRICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ , unless others specified)

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	$\mu\text{A}$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB}=5\text{V}$ , $I_C=0$			1.0	$\mu\text{A}$
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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