

Ordering number : ENN3703B

NPN Triple Diffused Planar Silicon Transistor

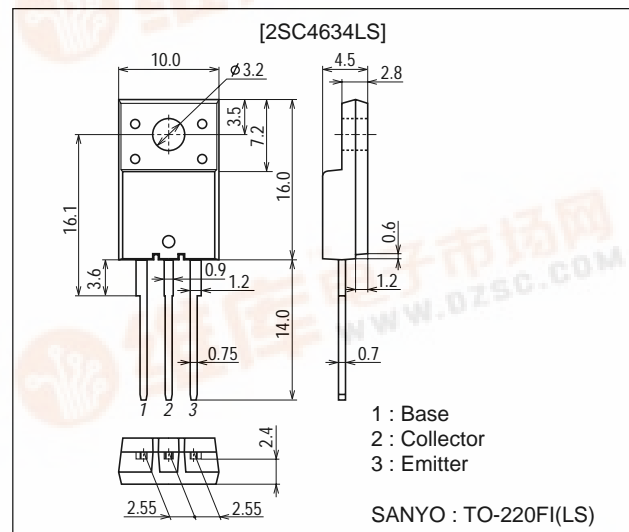
SANYO**2SC4634LS****1500V / 10mA High-Voltage Amplifier,
High-Voltage Switching Applications****Features**

- High breakdown voltage(V_{CEO} min=1500V).
- Small Cob(typical Cob=1.5pF).
- Full-isolation package.
- High reliability(Adoption of HVP process).

Package Dimensions

unit : mm

2079D

**Specifications****Absolute Maximum Ratings** at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CBO}		1500	V
Collector-to-Emitter Voltage	V_{CEO}		1500	V
Emitter-to-Base Voltage	V_{EBO}		5	V
Collector Current	I_C		10	mA
Collector Current (Pulse)	I_{CP}		30	mA
Collector Dissipation	P_C		2	W
Junction Temperature	T_J		150	$^\circ\text{C}$
Storage Temperature	T_{stg}		-55 to +150	$^\circ\text{C}$

Electrical Characteristics at $T_a=25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	$V_{CB}=1500\text{V}, I_E=0$			1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=4\text{V}, I_C=0$			1	μA
DC Current Gain	h_{FE}	$V_{CE}=5\text{V}, I_C=200\mu\text{A}$	10		60	
Gain-Bandwidth Product	f_T	$V_{CE}=10\text{V}, I_C=200\mu\text{A}$		6		MHz

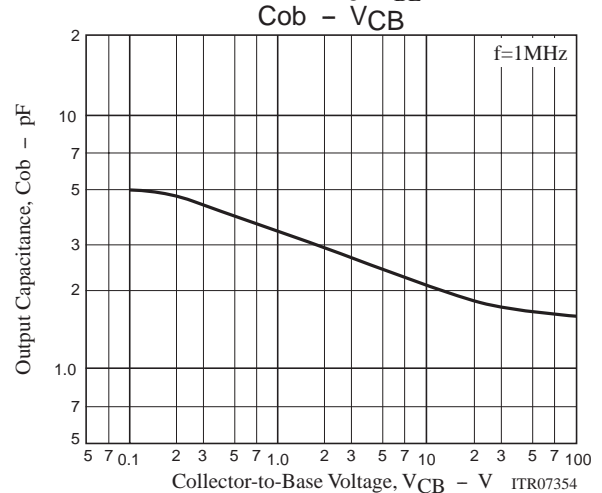
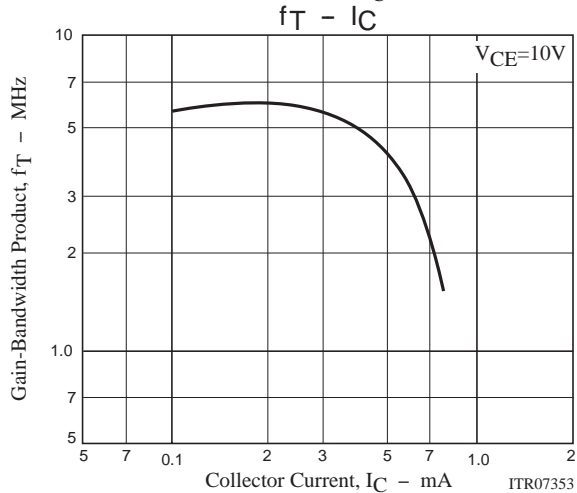
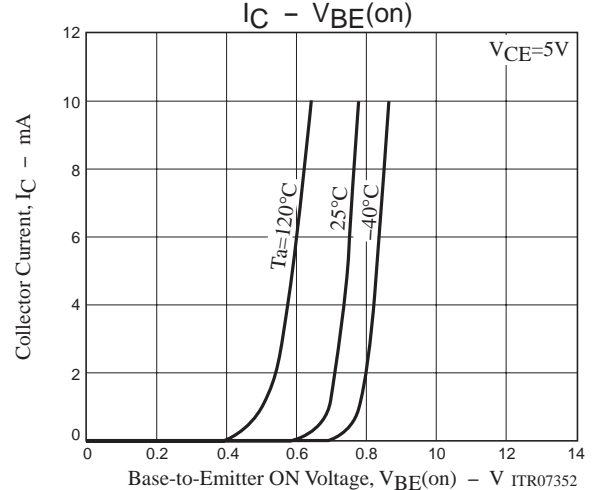
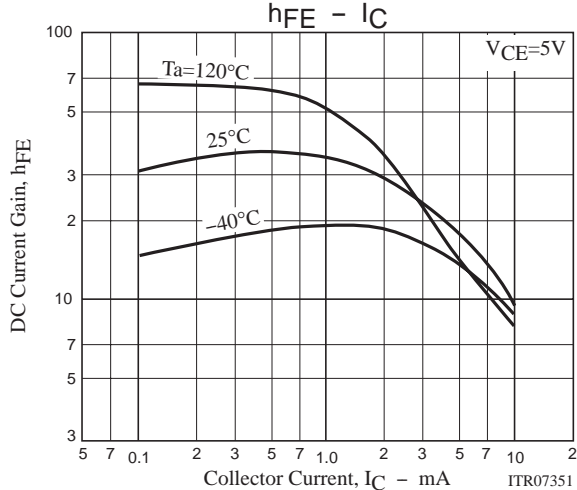
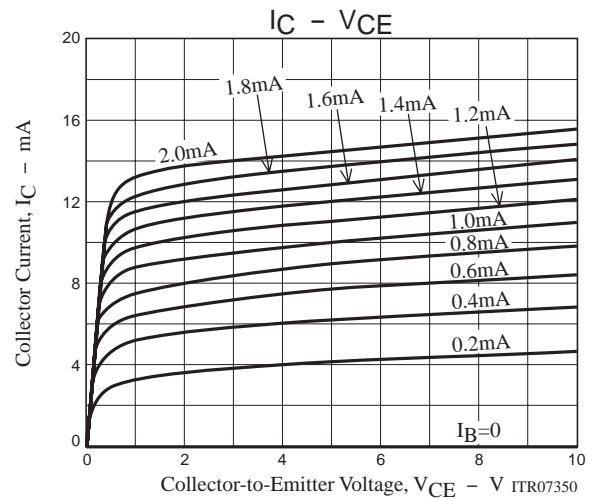
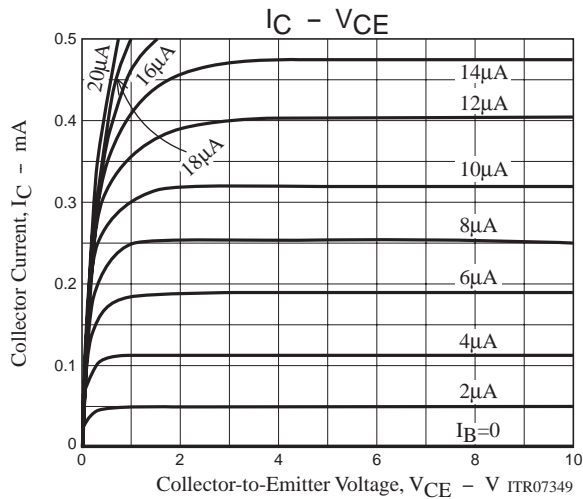
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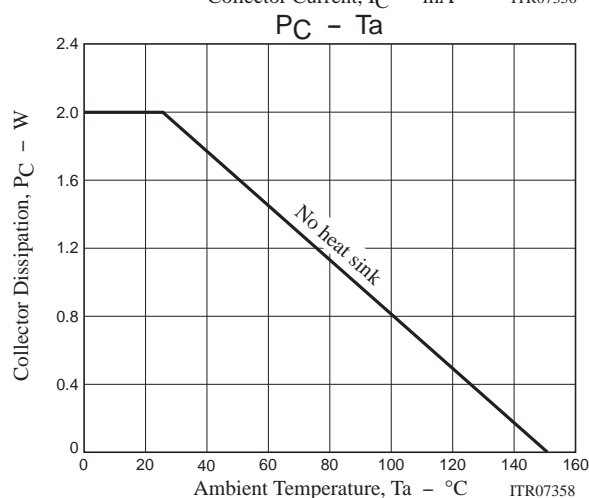
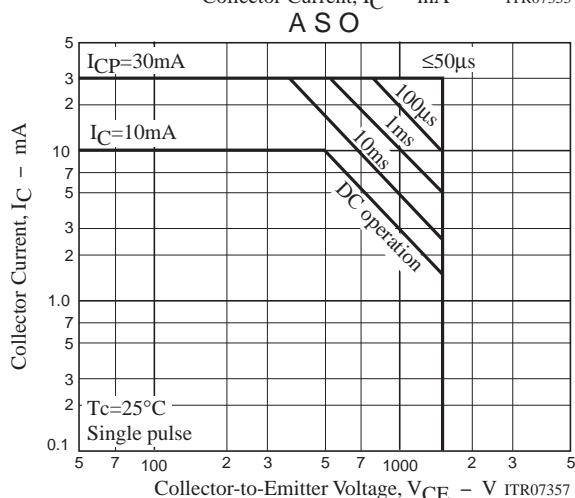
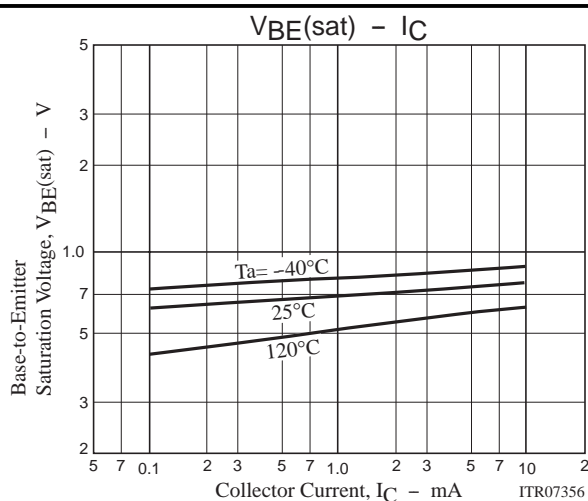
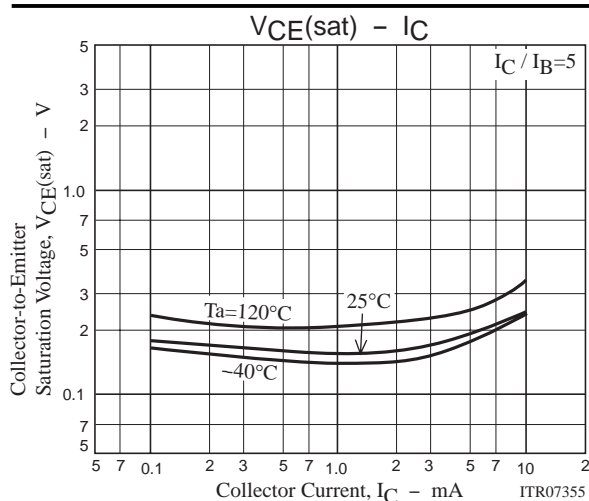
2SC4634LS

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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500\mu A, I_B=100\mu A$			5	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=500\mu A, I_B=100\mu A$			2	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=10\mu A, I_E=0$	1500			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=100\mu A, R_{BE}=\infty$	1500			V
Emitter-to-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	5			V
Output Capacitance	Cob	$V_{CB}=100V, f=1MHz$		1.5		pF
Thermal Resistance	Rthj-c	Junction – case			12.5	°C / W



2SC4634LS



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