



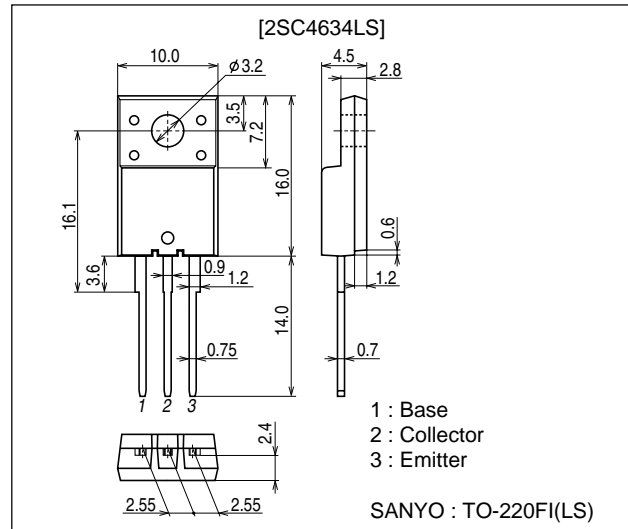
# 1500V / 10mA High-Voltage Amplifier, High-Voltage Switching Applications

## 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  $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	$V_{CB0}$		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	$^\circ C$
Storage Temperature	$T_{stg}$		-55 to +150	$^\circ C$

Electrical Characteristics at  $T_a=25^\circ C$

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

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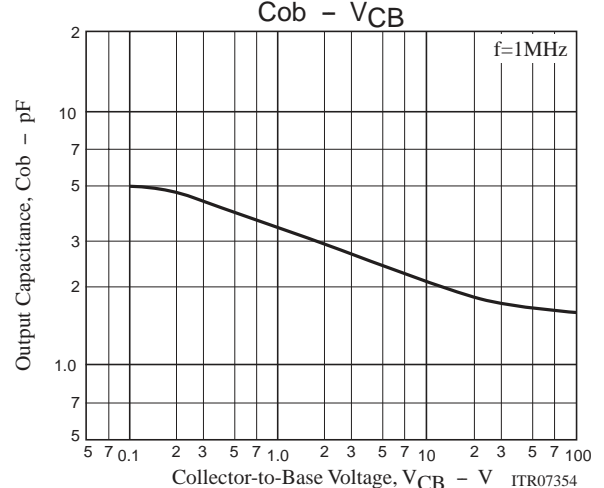
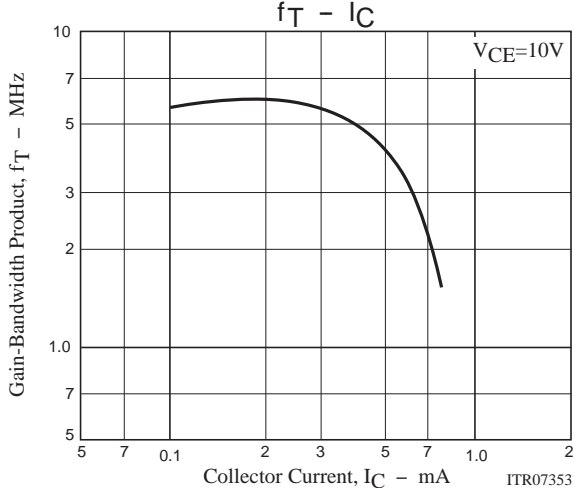
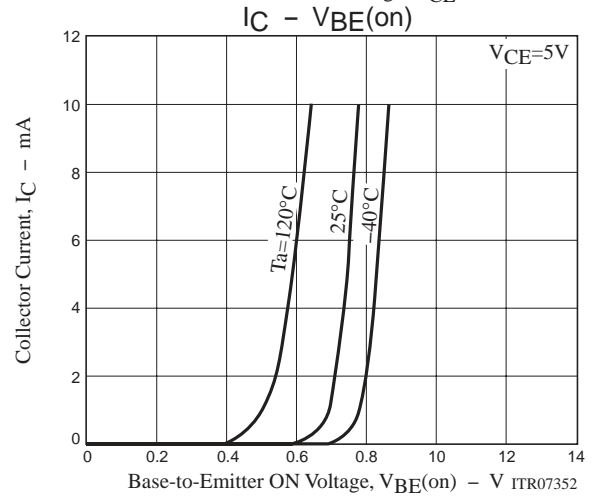
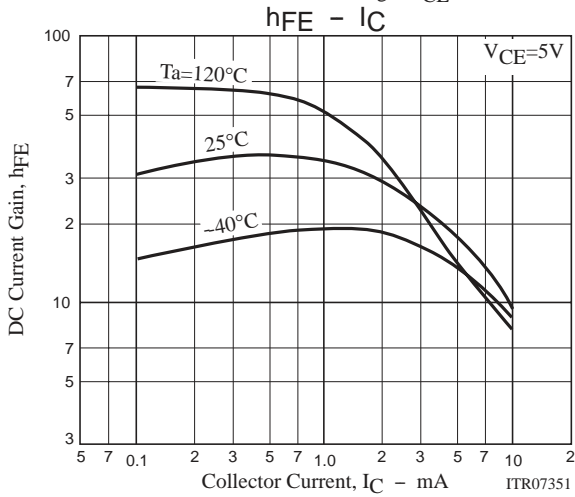
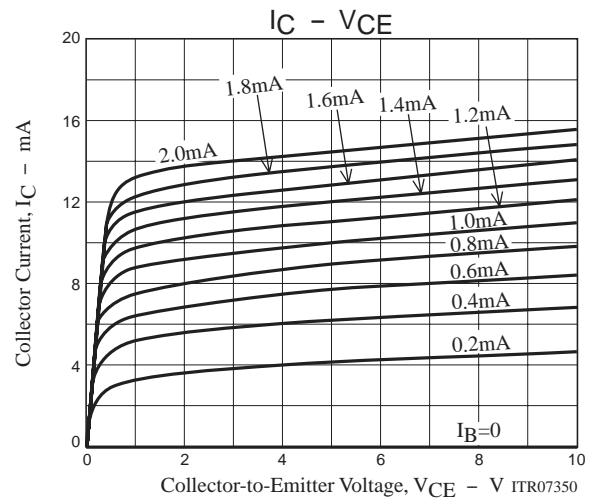
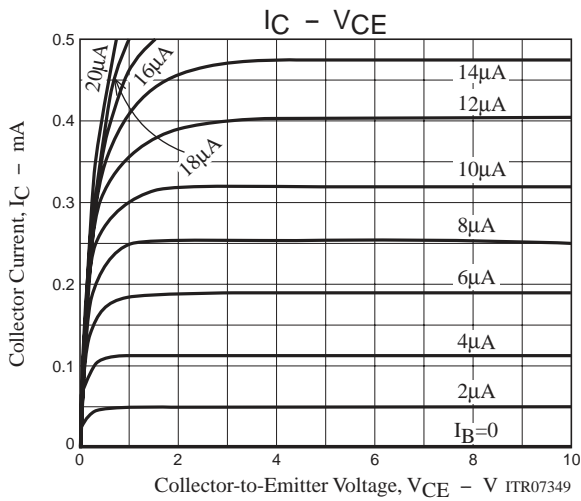
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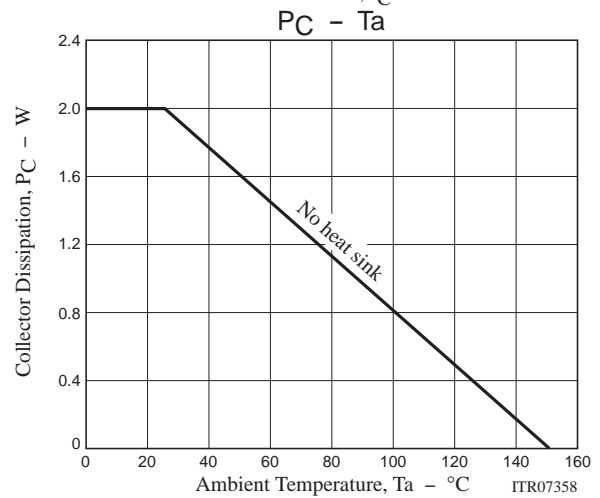
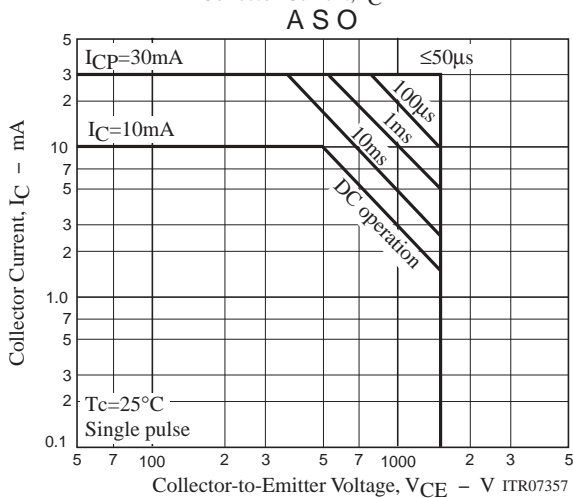
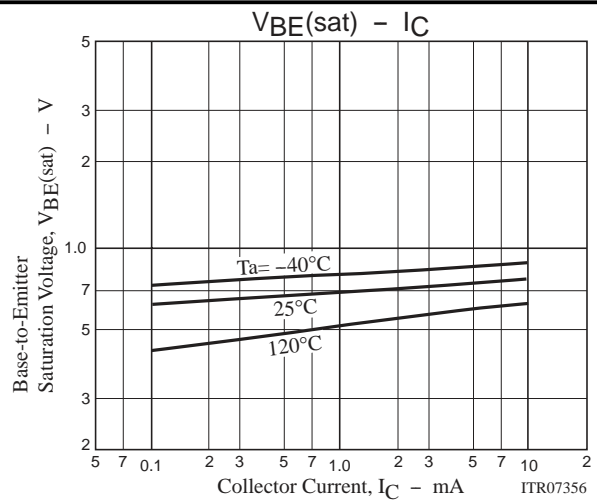
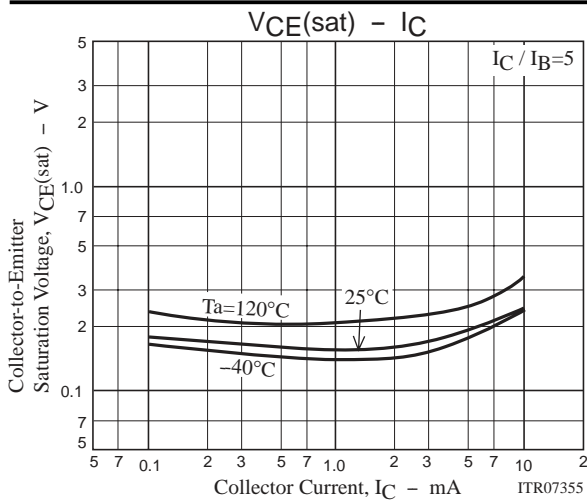
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500\mu A, I_B=100\mu A$			5	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=500\mu A, I_B=100\mu A$			2	V
Collector-to-Base 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	$C_{ob}$	$V_{CB}=100V, f=1MHz$		1.5		pF
Thermal Resistance	$R_{thj-c}$	Junction - case			12.5	$^{\circ}C/W$



## 2SC4634LS



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