



## 2SC4637LS

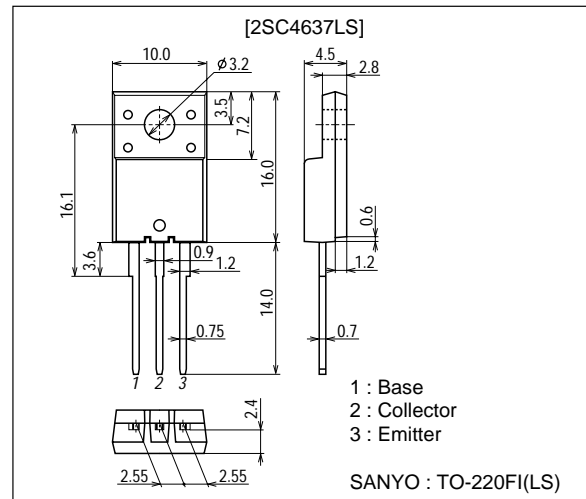
### 1800V / 15mA High-Voltage Amplifier, High-Voltage Switching Applications

#### Features

- High breakdown voltage( $V_{CEO}$  min=1800V).
- Small Cob(typical Cob=1.8pF).
- 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	$V_{CBO}$		2000	V
Collector-to-Emitter Voltage	$V_{CEO}$		1800	V
Emitter-to-Base Voltage	$V_{EBO}$		5	V
Collector Current	$I_C$		15	mA
Collector Current (Pulse)	$I_{CP}$		50	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	$I_{CBO}$	$V_{CB}=1800\text{V}, I_E=0$			1	$\mu\text{A}$
Emitter Cutoff Current	$I_{EBO}$	$V_{EB}=4\text{V}, I_C=0$			1	$\mu\text{A}$
DC Current Gain	$h_{FE}$	$V_{CE}=5\text{V}, I_C=300\mu\text{A}$	10		60	
Gain-Bandwidth Product	$f_T$	$V_{CE}=10\text{V}, I_C=300\mu\text{A}$		6		MHz

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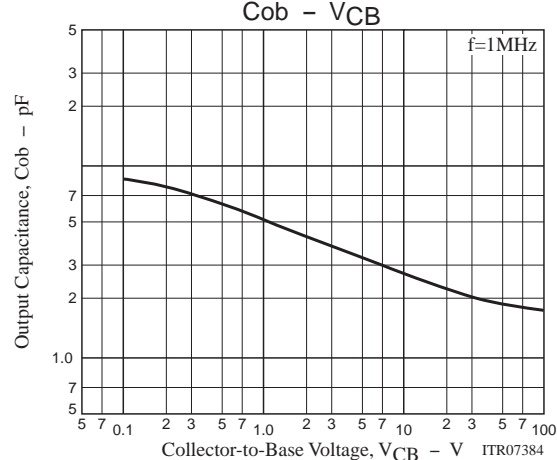
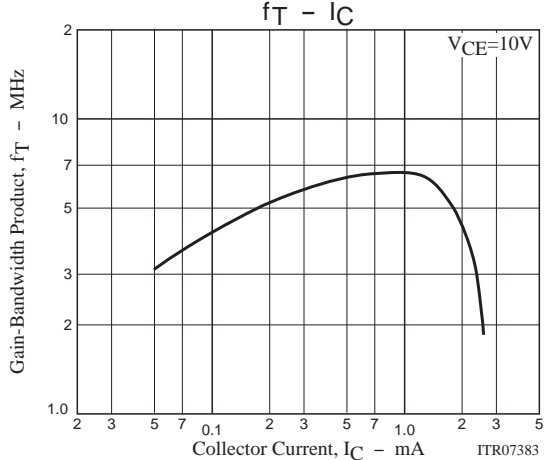
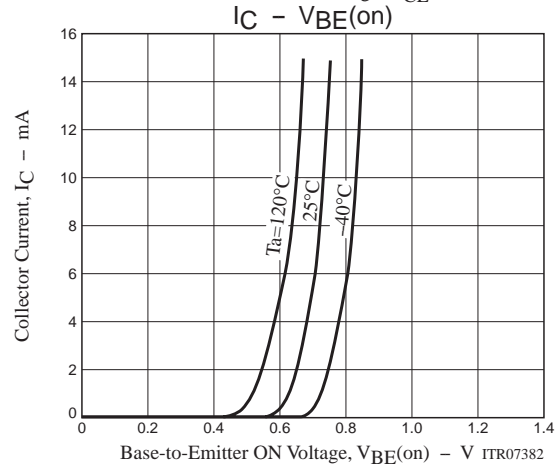
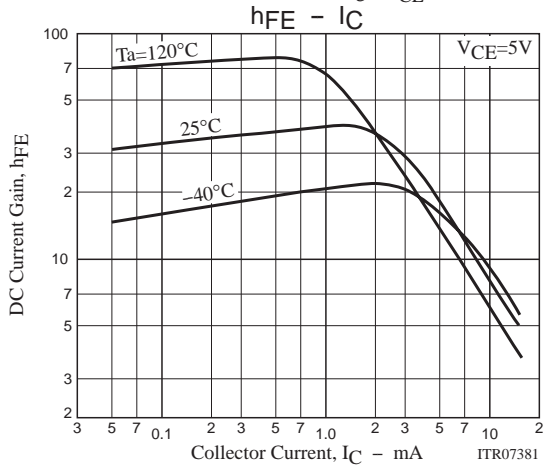
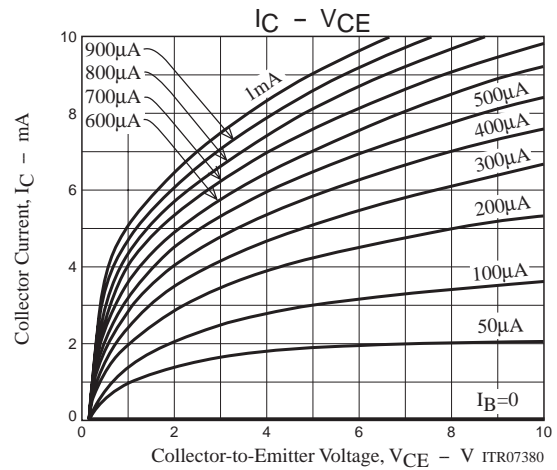
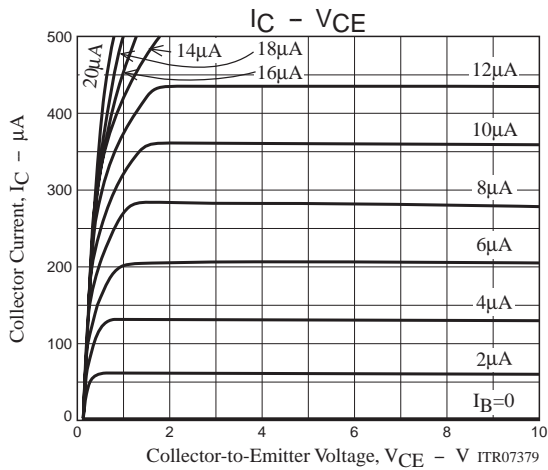
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11502 TS IM TA-3427 / 11599 HA (KT) / 80296 YK (KOTO) TA-0465, AX-7506, 8-6928 No.3706-1/3

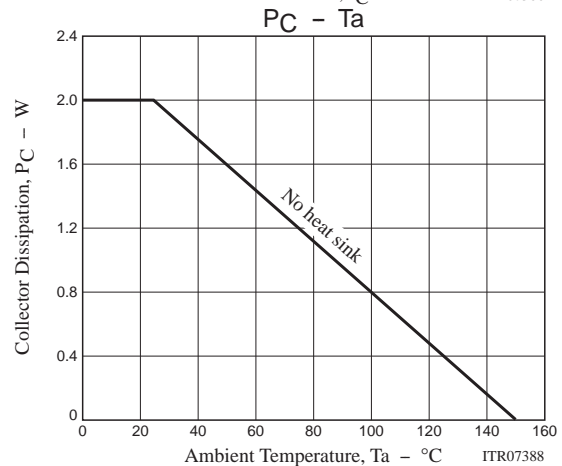
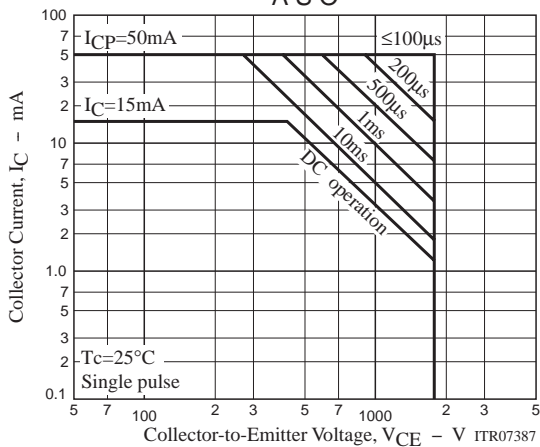
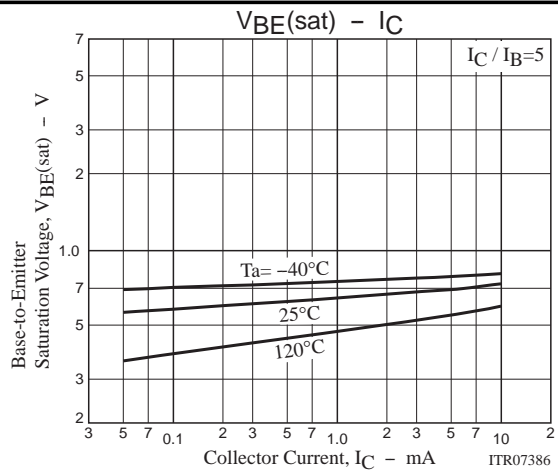
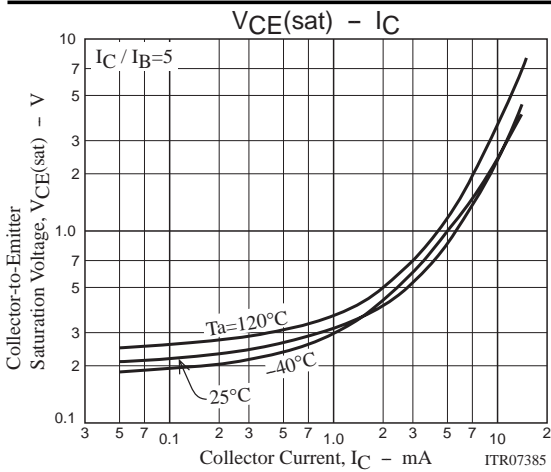
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=600\mu A, I_B=120\mu A$			5	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=600\mu A, I_B=120\mu A$			2	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	2000			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=100\mu A, R_{BE}=\infty$	1800			V
Emitter-to-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=10\mu A, I_C=0$	5			V
Output Capacitance	$C_{ob}$	$V_{CB}=100V, f=1MHz$		1.8		pF
Thermal Resistance	$R_{thj-c}$	Junction - case			8.3	$^{\circ}C/W$



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