



2SC4637LS

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

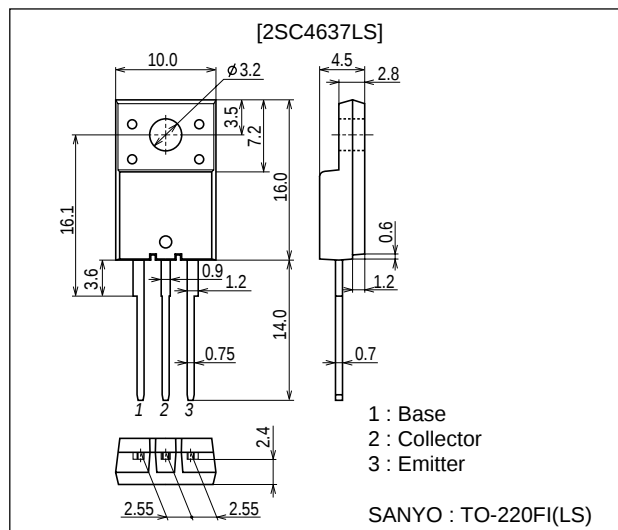
Features

- 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 $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CB0}		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	$^\circ C$
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}	$V_{CB}=1800V, I_E=0$			1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=4V, I_C=0$			1	μA
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=300\mu A$	10		60	
Gain-Bandwidth Product	f_T	$V_{CE}=10V, I_C=300\mu A$		6		MHz

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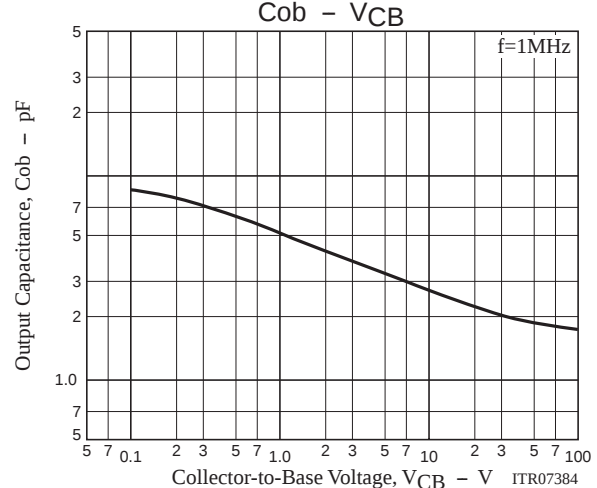
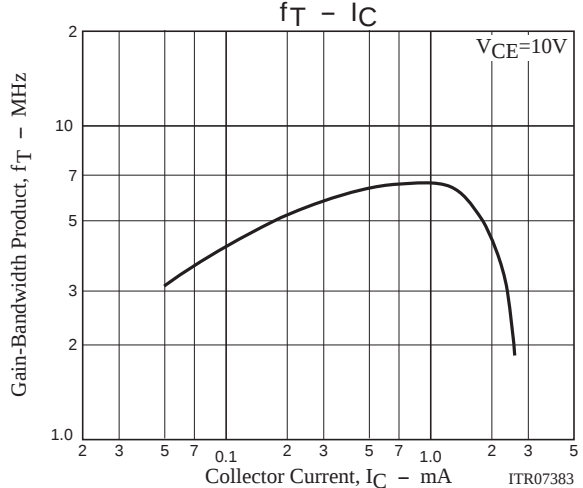
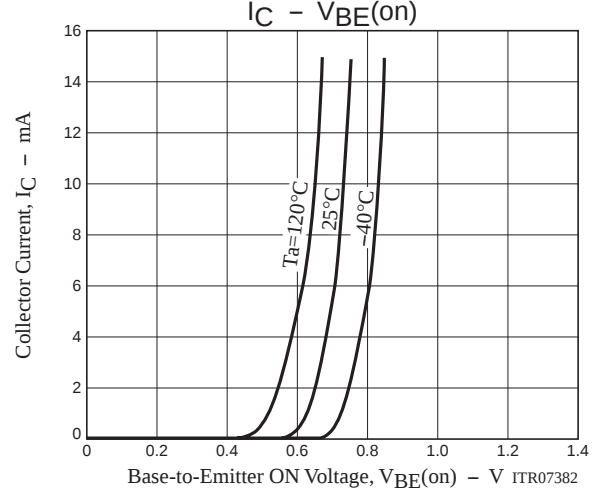
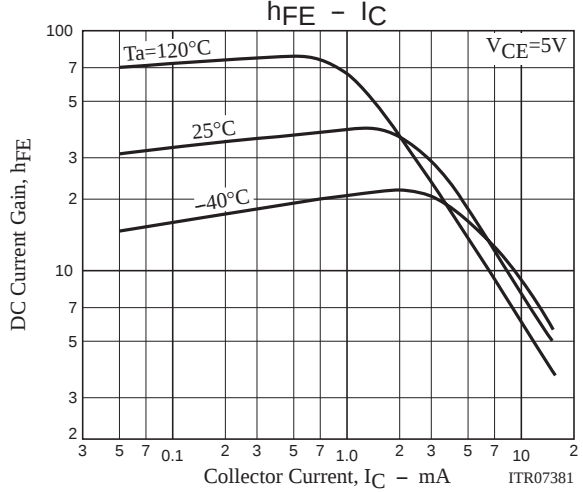
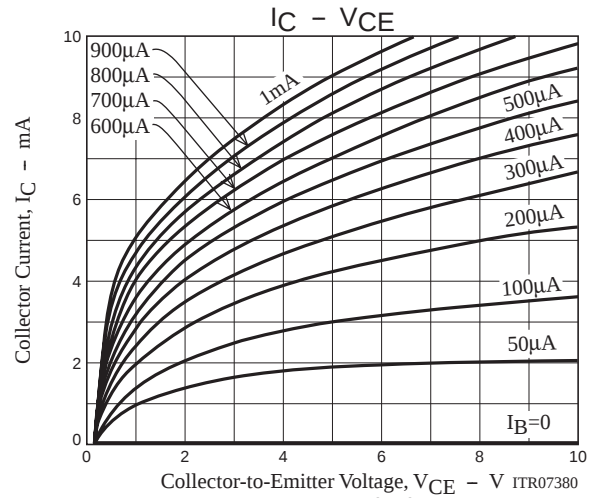
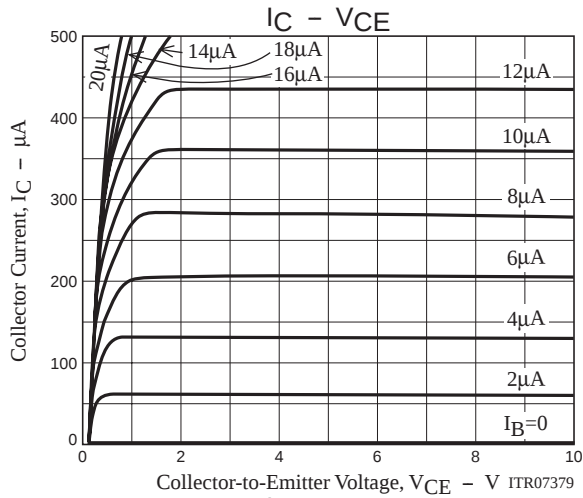
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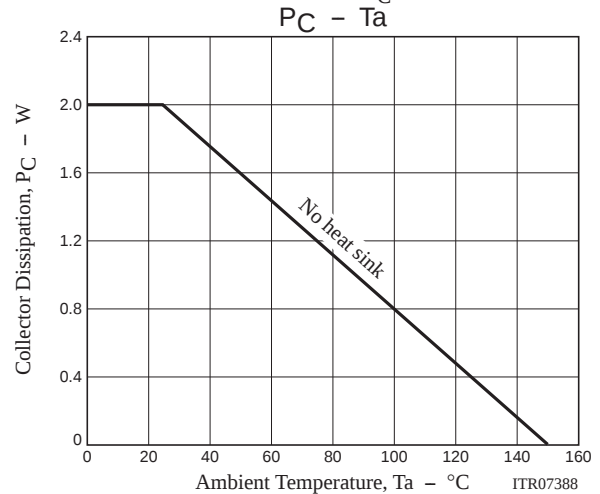
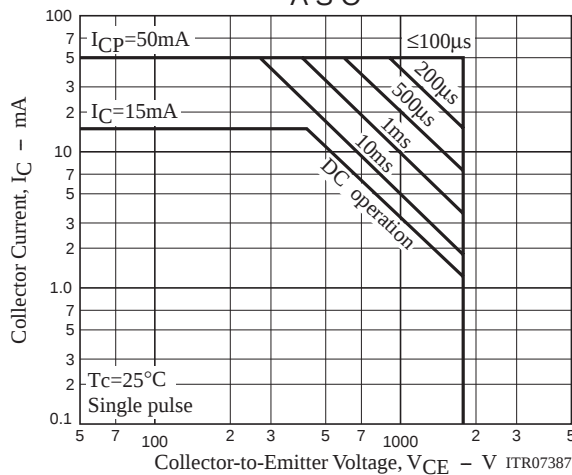
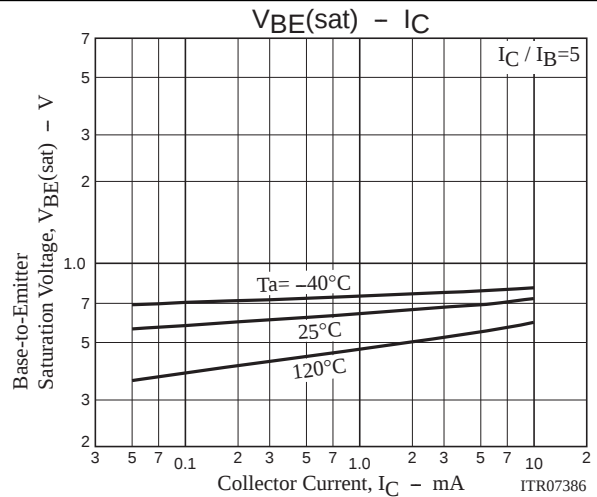
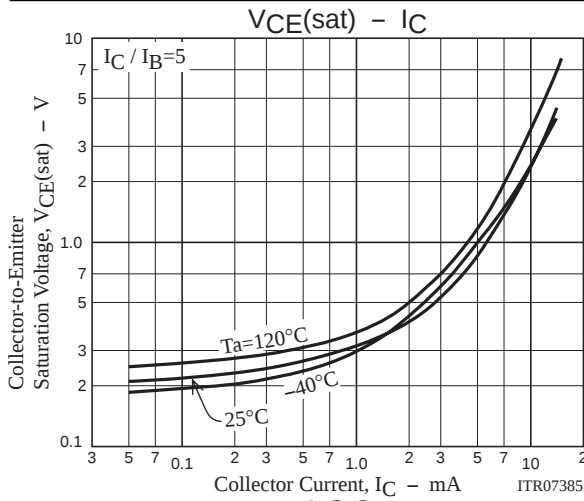
11502 TS IM TA-3427 / 11599 HA (KT) / 80296 YK (KOTO) TA-0465, AX-7506, 8-6928 No.3706-1/3

2SC4637LS

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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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