Ordering number : ENN3688B

NPN Triple Diffused Planar Silicon Transistor

2SC4710LS

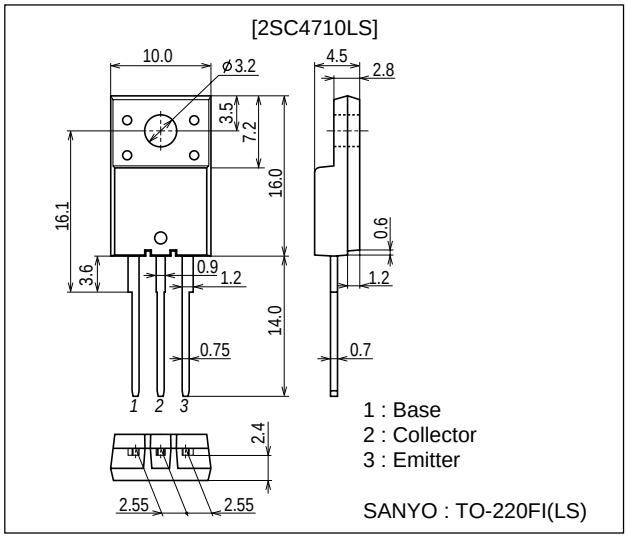
2100V / 10mA High-Voltage Amplifier, High-Voltage Switching Applications

Features

- High breakdown voltage(V_{CEO} min=2100V).
- Small Cob(typical Cob=1.3pF).
- Wide ASO.
- High reliability(Adoption of HVP process).
- Full isolation package.

Package Dimensions

unit : mm
2079D



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CBO}		2100	V
Collector-to-Emitter Voltage	V_{CEO}		2100	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	Tj		150	°C
Storage Temperature	Tstg		−55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CBO}	V_{CB}=2100V, 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=500μA	10		60	
Gain-Bandwidth Product	f_T	V_{CE}=10V, I_C=500μA		6		MHz

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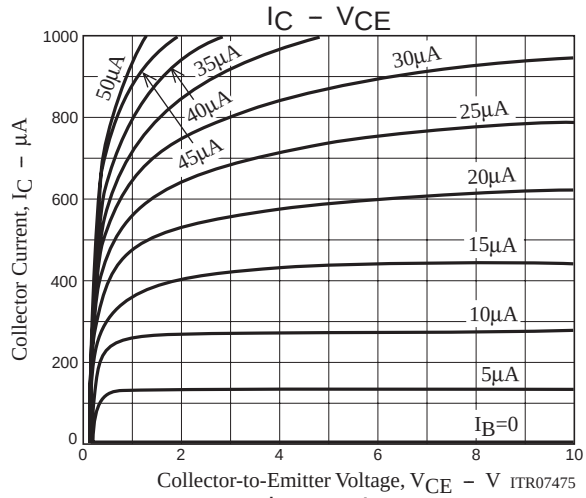
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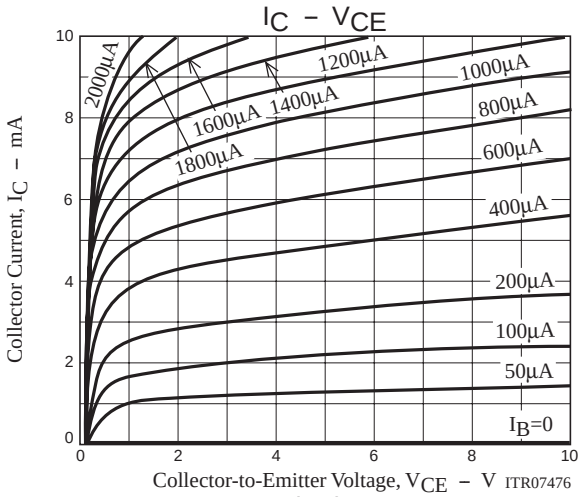
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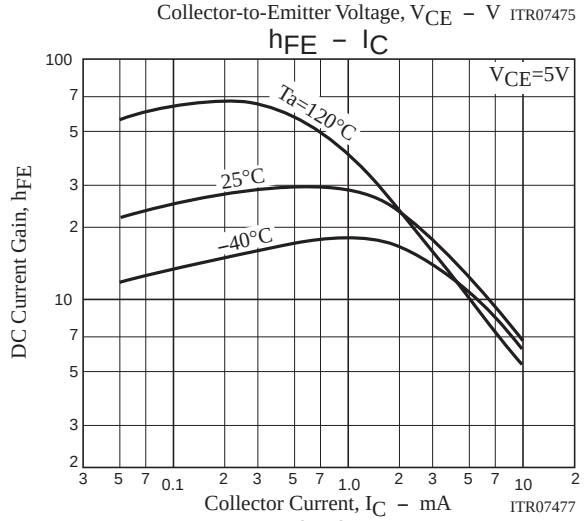
SANYO Electric Co.,Ltd. Semiconductor Company
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-8534 JAPAN

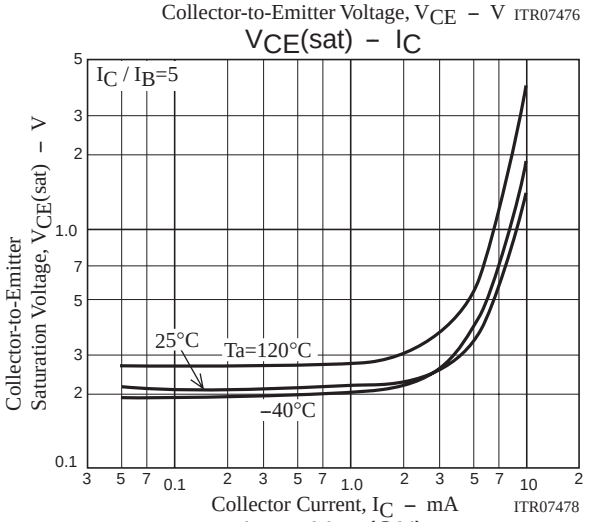
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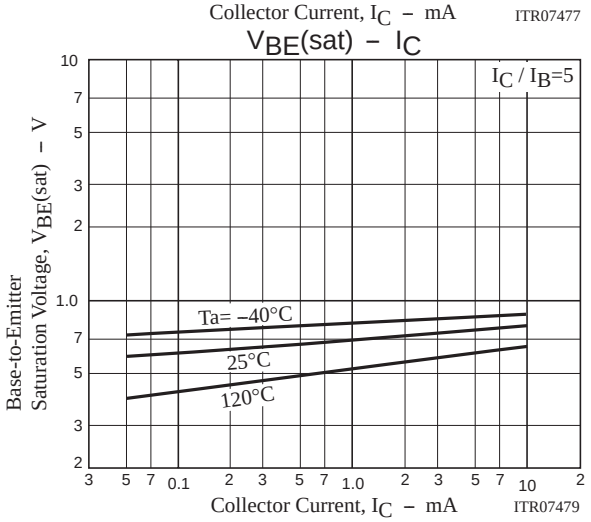
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Saturation Voltage	V_{CE}(sat)	I_C=1mA, I_B=200μA			5	V
Base-to-Emitter Saturation Voltage	V_{BE}(sat)	I_C=1mA, I_B=200μA			2	V
Collector-to-Base Breakdown Voltage	$V_{(BR)CBO}$	I_C=10μA, I_E=0	2100			V
Collector-to-Emitter Breakdown Voltage	$V_{(BR)CEO}$	I_C=100μA, R_{BE}=∞	2100			V
Emitter-to-Base Breakdown Voltage	$V_{(BR)EBO}$	I_E=10μA, I_C=0	5			V
Output Capacitance	Cob	V_{CB}=100V, f=1MHz		1.3		pF

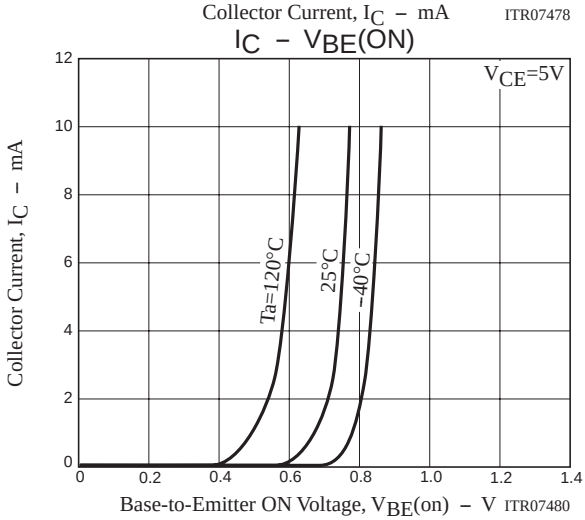


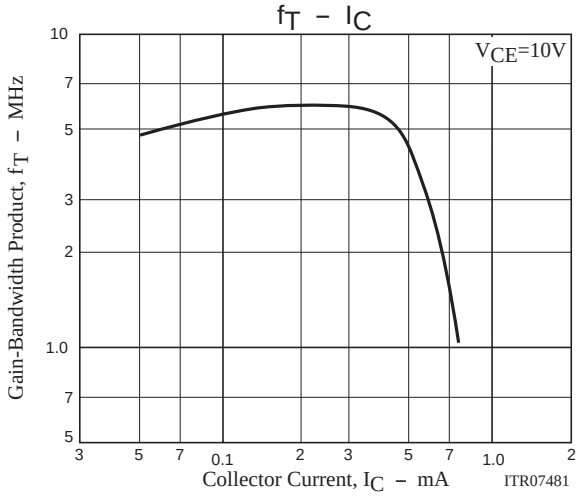


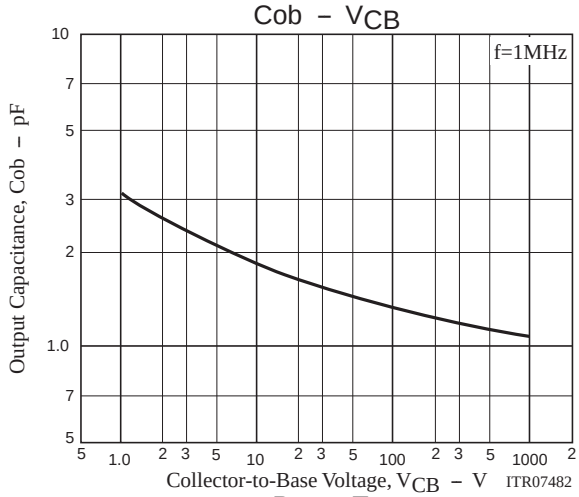


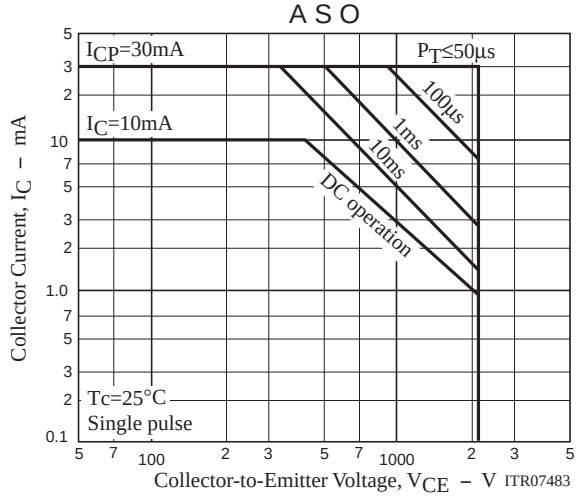


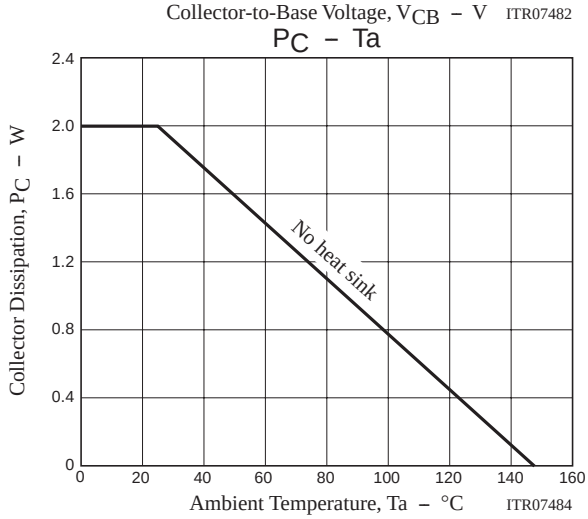












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