

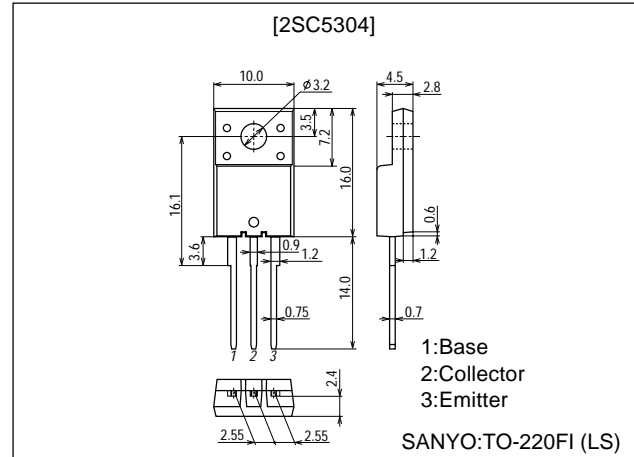
**2SC5304LS****Inverter Lighting Applications****Features**

- High breakdown voltage ($V_{CBO}=1000V$).
- High reliability (Adoption of HVP process).
- Adoption of MBIT 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_{CBO}		1000	V
Collector-to-Emitter Voltage	V_{CEO}		450	V
Emitter-to-Base Voltage	V_{EBO}		9	V
Collector Current	I_C		7	A
Collector Current (pulse)	I_{CP}		14	A
Collector Dissipation	P_C		2	W
		$T_c=25^\circ C$	35	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}	$V_{CB}=450V, I_E=0$			10	μA
Collector Cutoff Current	I_{CES}	$V_{CE}=1000V, R_{BE}=0$			1.0	mA
Collector Saturation Voltage	$V_{CEO(sus)}$	$I_C=100mA, I_B=0$	450			V
Emitter Cutoff Current	I_{EBO}	$V_{EB}=9V, I_C=0$			1.0	mA
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=3.5A, I_B=0.7A$			1.0	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=3.5A, I_B=0.7A$			1.5	V
DC Current Gain	h_{FE1}	$V_{CE}=5V, I_C=0.3A$	30	40	50	
	h_{FE2}	$V_{CE}=5V, I_C=3.0A$	10			
Storage Time	t_{stg}	$I_C=3.5A, I_{B1}=0.7A, I_{B2}=-1.4A$			2.5	μs
Fall Time	t_f	$I_C=3.5A, I_{B1}=0.7A, I_{B2}=-1.4A$			0.15	μs

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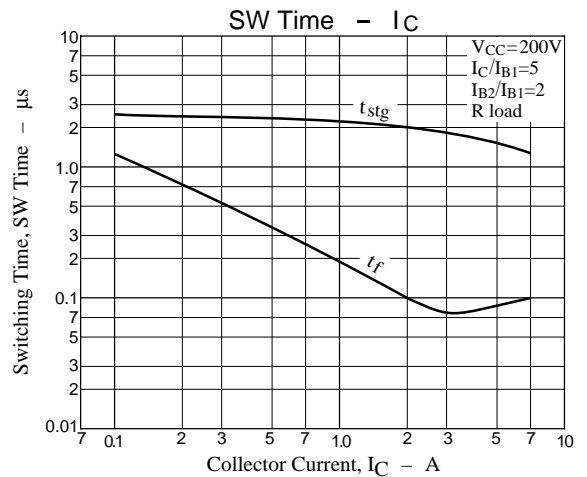
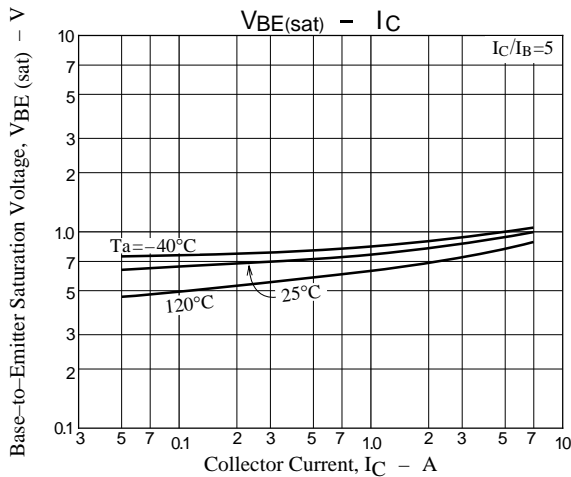
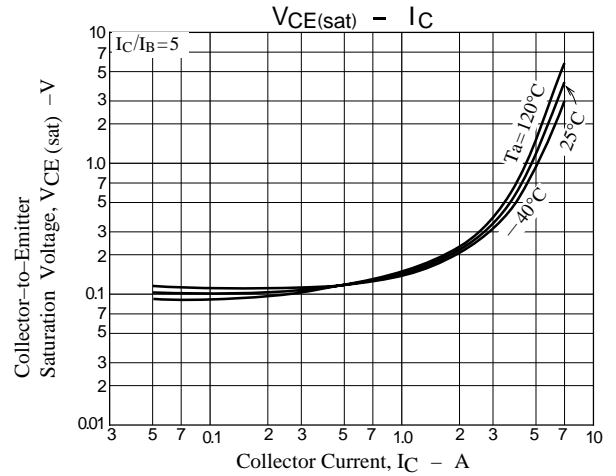
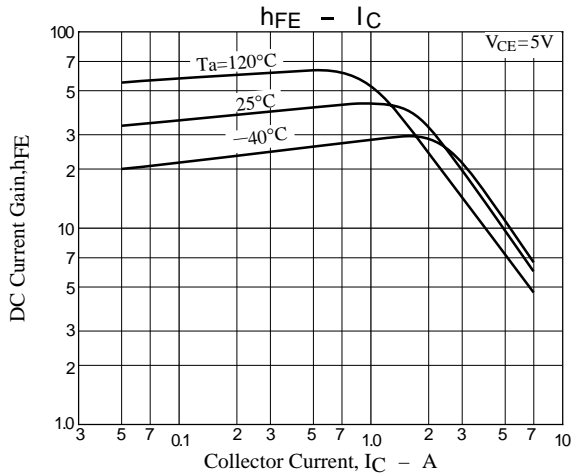
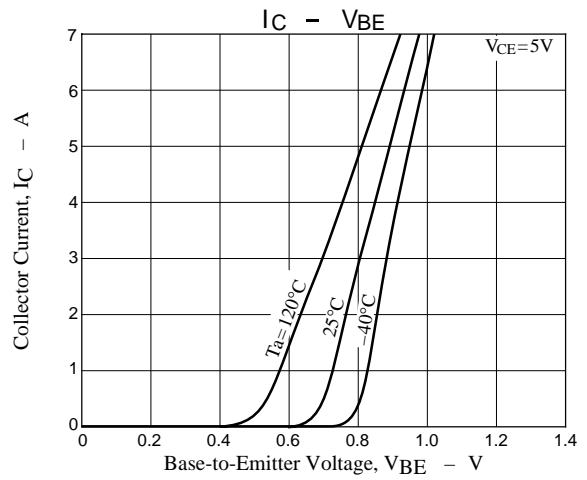
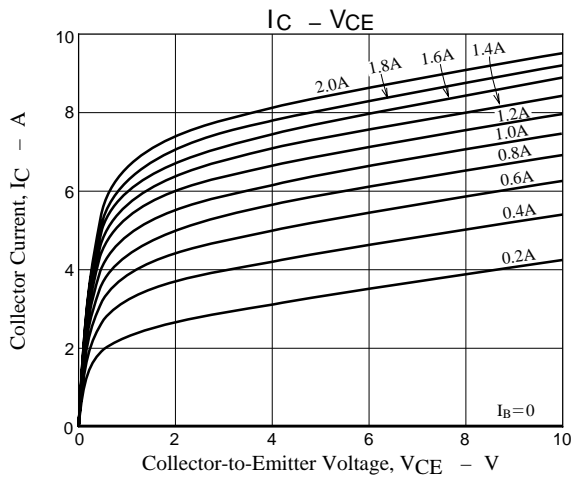
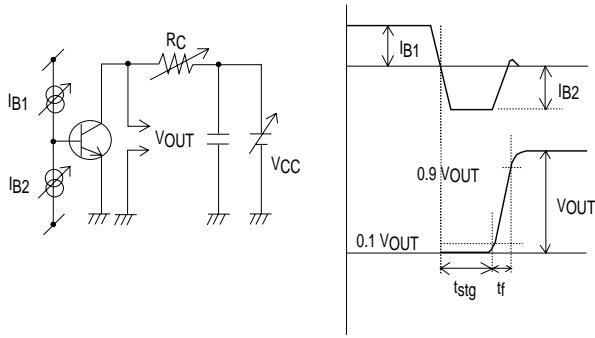
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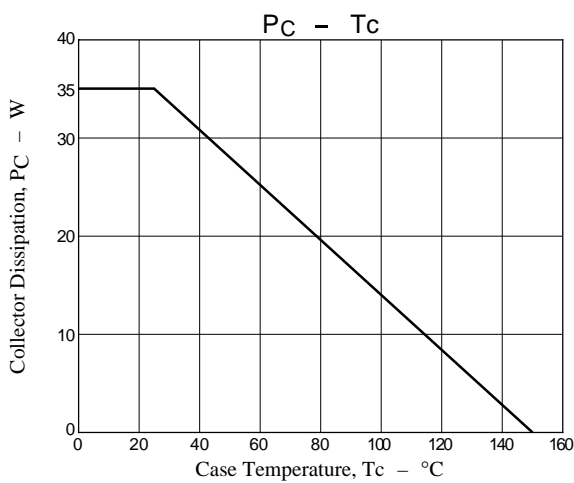
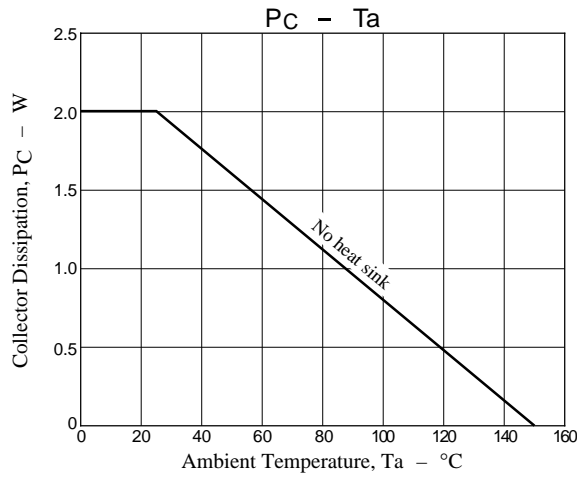
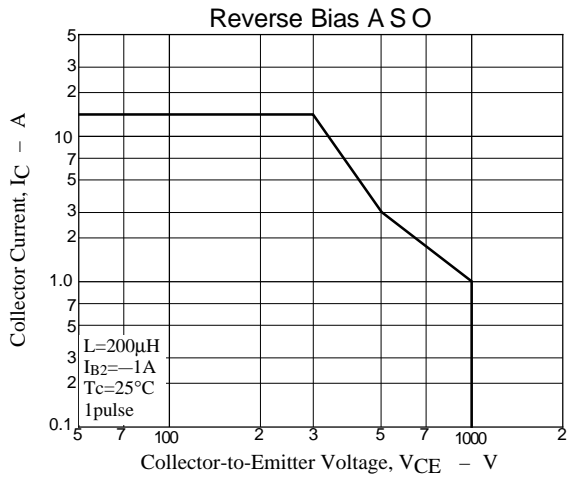
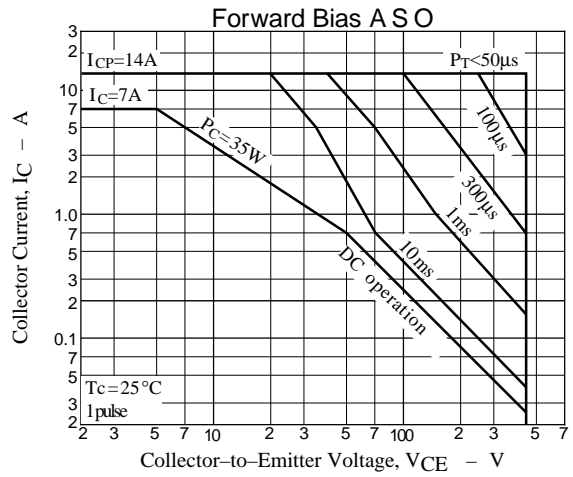
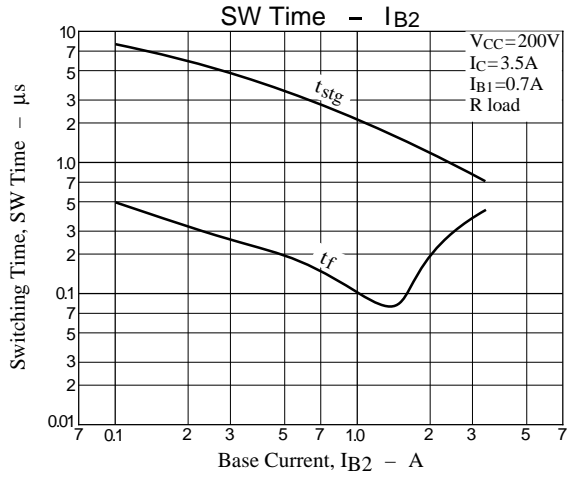
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2SC5304LS

Switching Time Test Circuit



2SC5304LS



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