



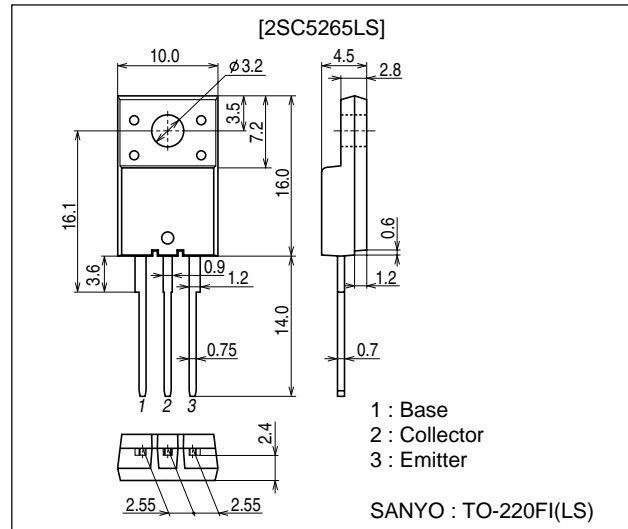
Inverter-Controlled Lighting Applications

Features

- High breakdown voltage($V_{CBO}=1200V$).
- 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}		1200	V
Collector-to-Emitter Voltage	V_{CEO}		600	V
Emitter-to-Base Voltage	V_{EBO}		9	V
Collector Current	I_C		4	A
Collector Current (Pulse)	I_{CP}		8	A
Collector Dissipation	P_C		2	W
		$T_c=25^\circ C$	30	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}	$V_{CB}=600V, I_E=0$			10	μA
	I_{CES}	$V_{CE}=1200V, R_{BE}=0$			1.0	mA
Collector-to-Emitter Sustain Voltage	$V_{CEO(sus)}$	$I_C=100mA, I_B=0$	600			V
Emitter Cutoff Current	I_{EBO}	$V_{EB}=9V, I_C=0$			1.0	mA

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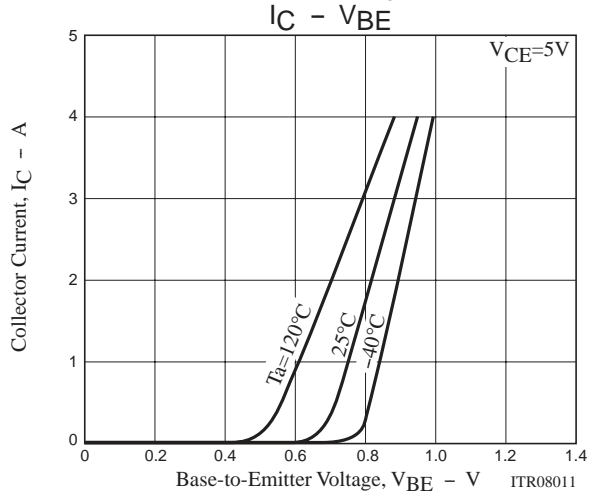
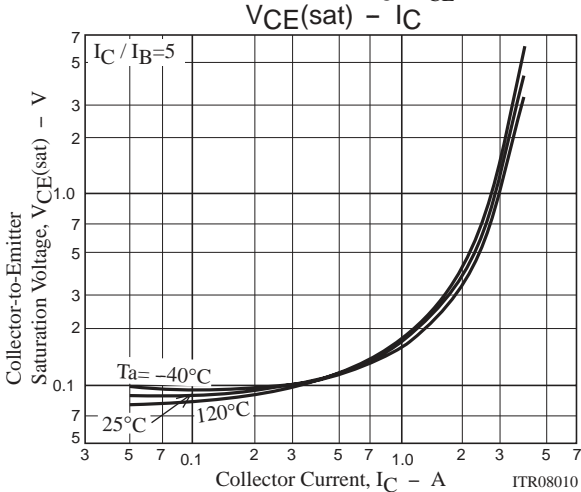
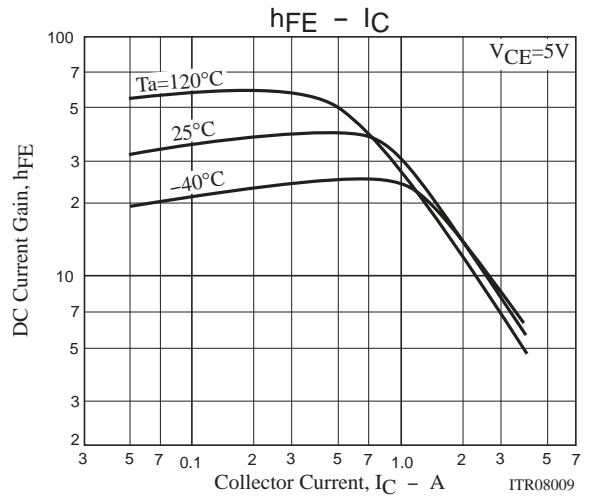
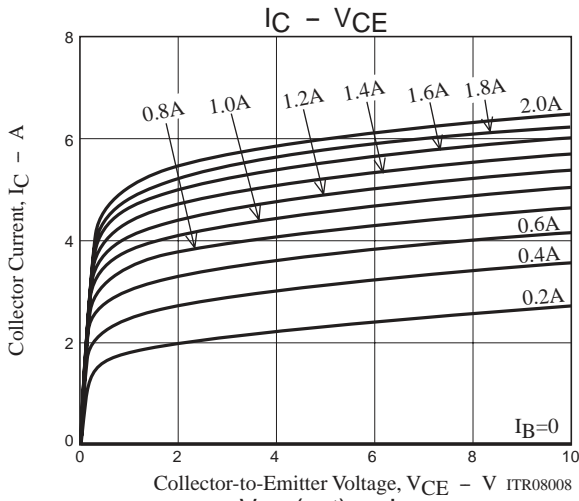
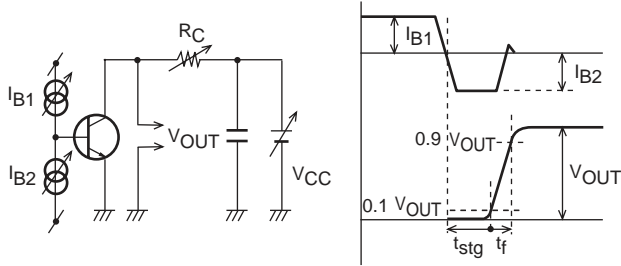
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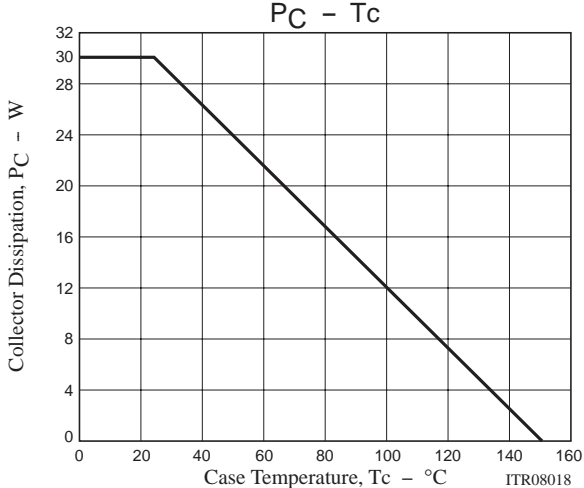
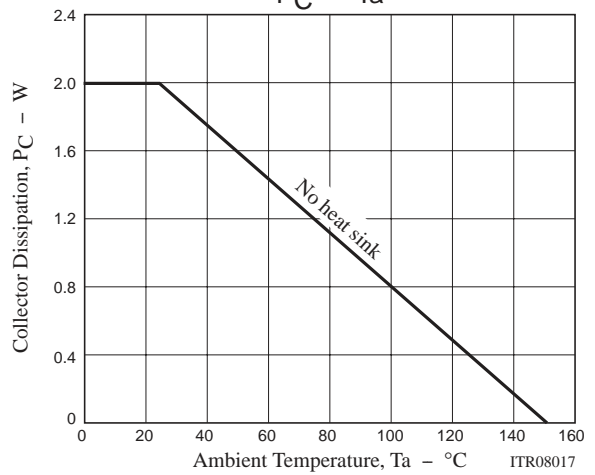
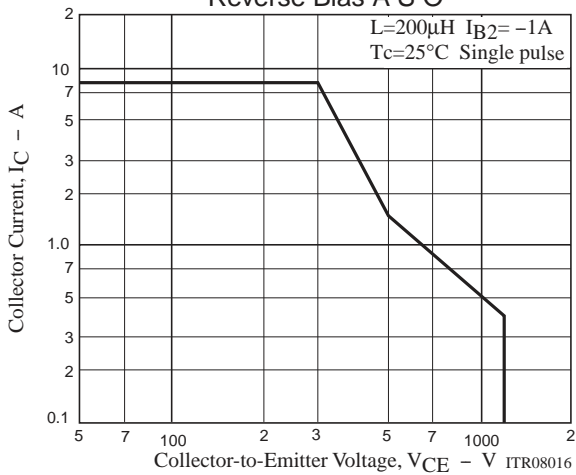
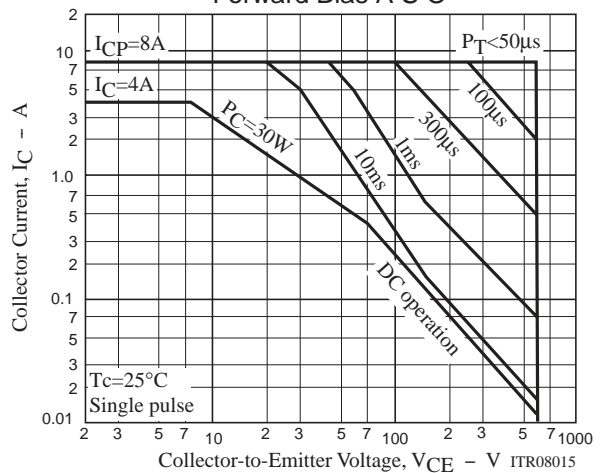
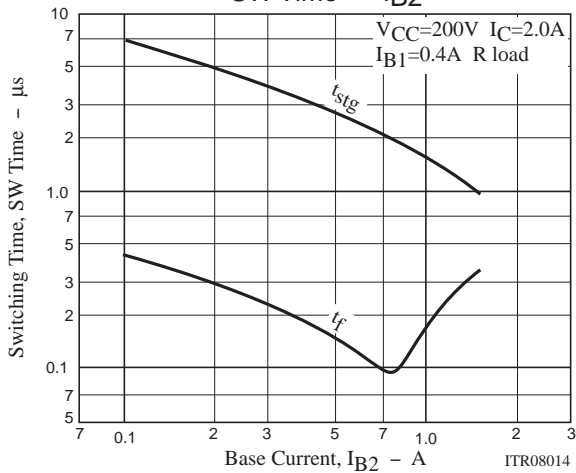
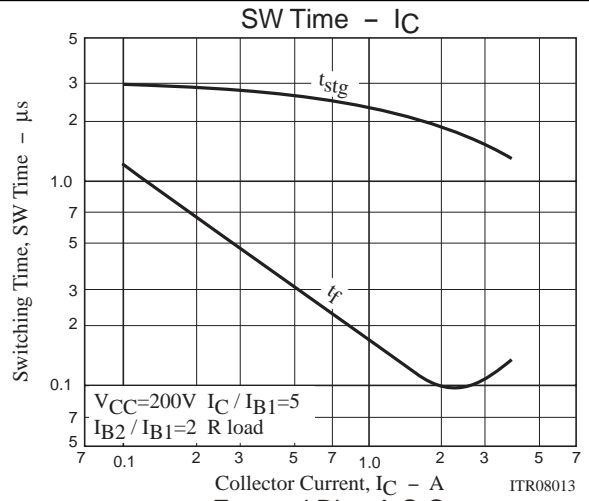
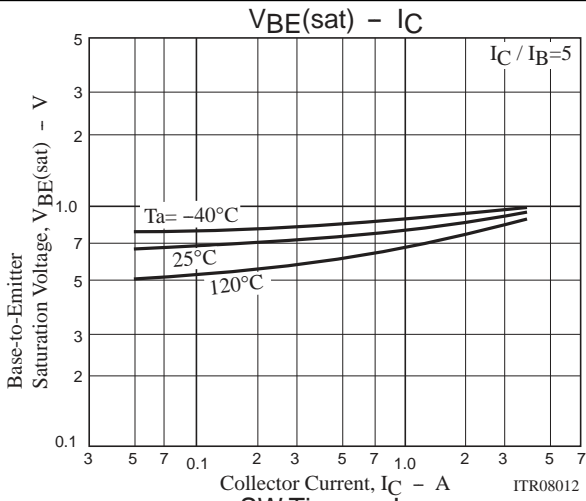
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector-to-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=2.0A, I_B=0.4A$			1.0	V
Base-to-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=2.0A, I_B=0.4A$			1.5	V
DC Current Gain	h_{FE1}	$V_{CE}=5V, I_C=0.3A$	30	40	50	
	h_{FE2}	$V_{CE}=5V, I_C=1.5A$	10			
Storage Time	t_{stg}	$I_C=2.0A, I_{B1}=0.4A, I_{B2}=-0.8A$			2.5	μs
Fall Time	t_f	$I_C=2.0A, I_{B1}=0.4A, I_{B2}=-0.8A$			0.15	μs

Switching Time Test Circuit



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