



Inverter Lighting Applications

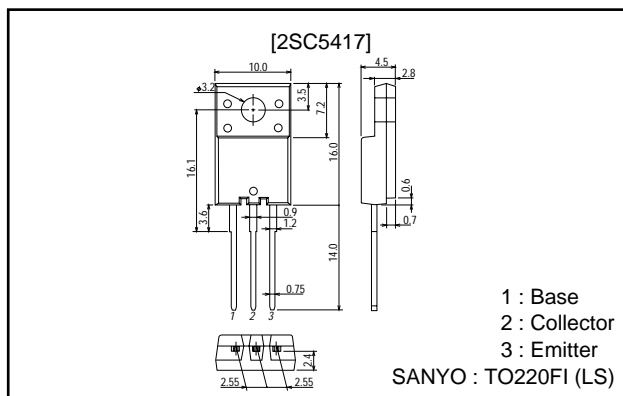
Features

- High breakdown voltage.
- High reliability (Adoption of HVP process).
- Adoption of MBIT process.

Package Dimensions

unit: mm

2079B-TO220FI (LS)



Specifications

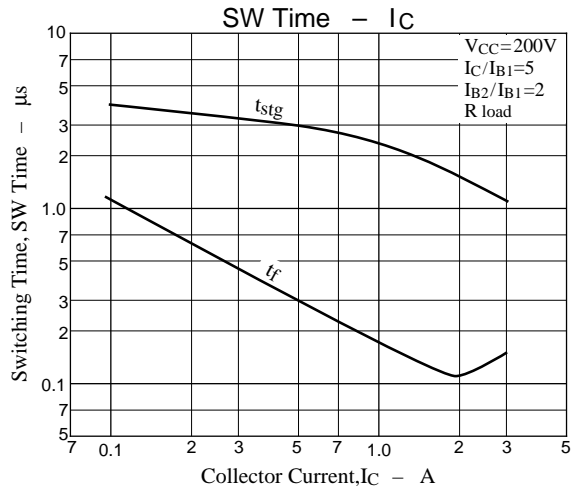
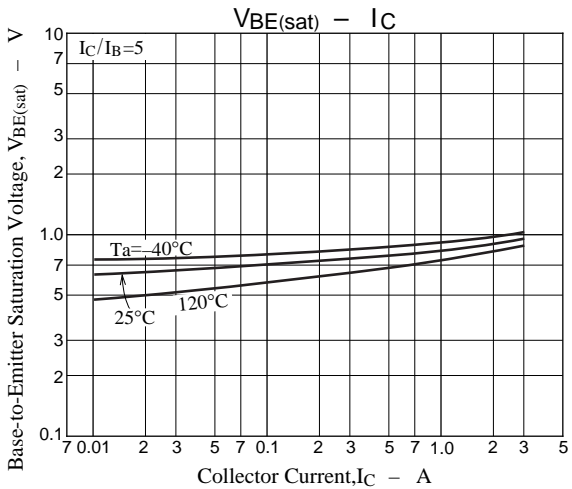
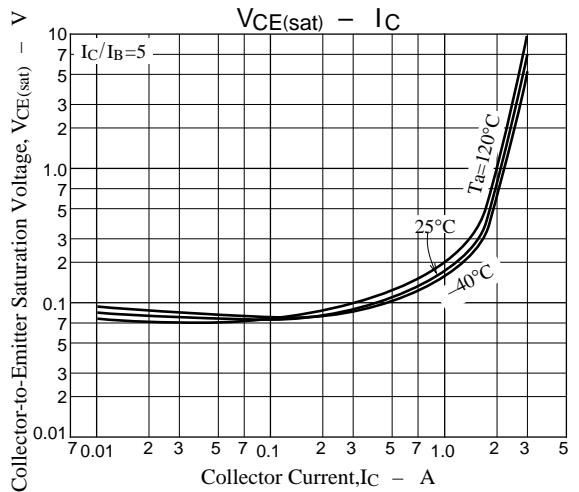
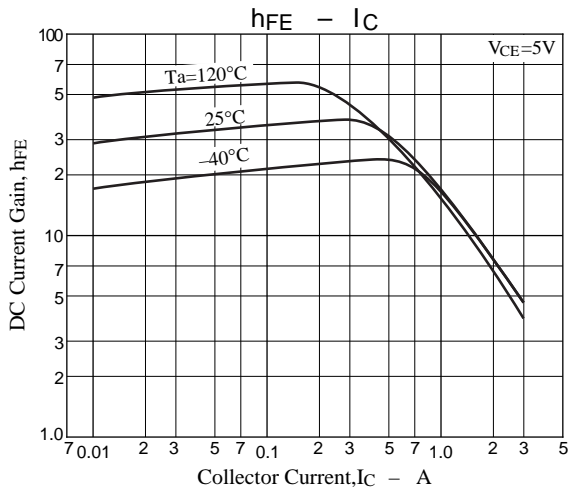
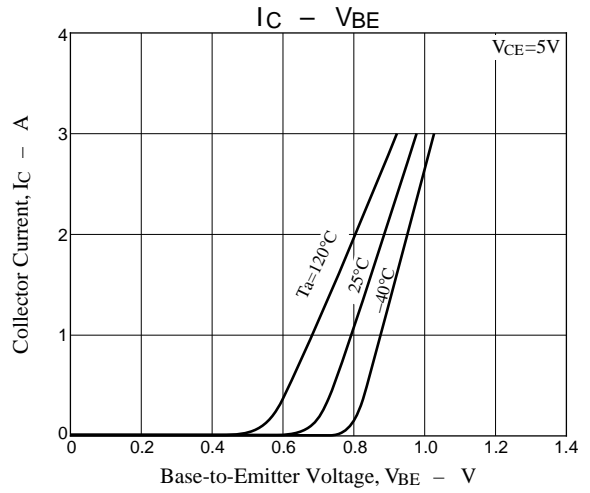
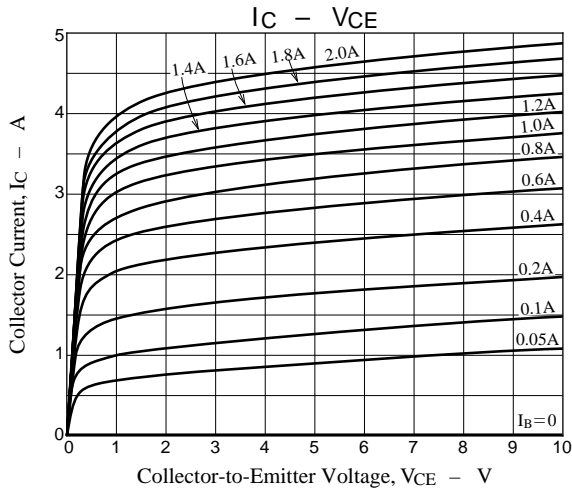
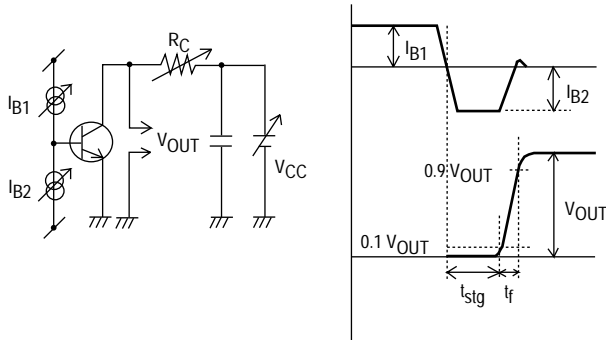
Absolute Maximum Ratings at Ta=25°C

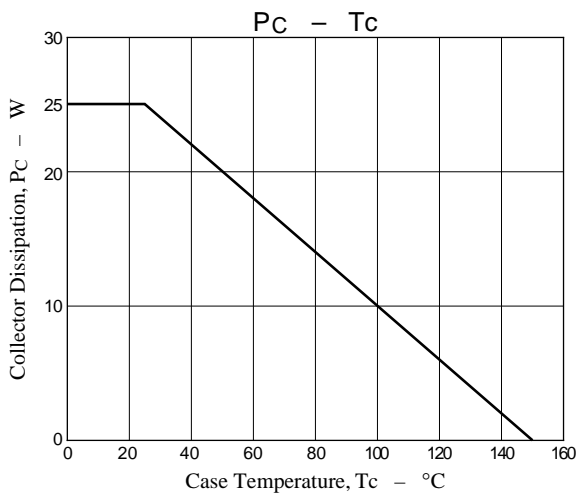
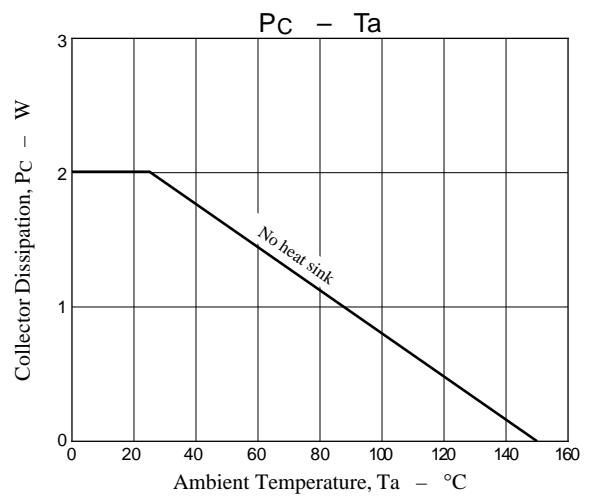
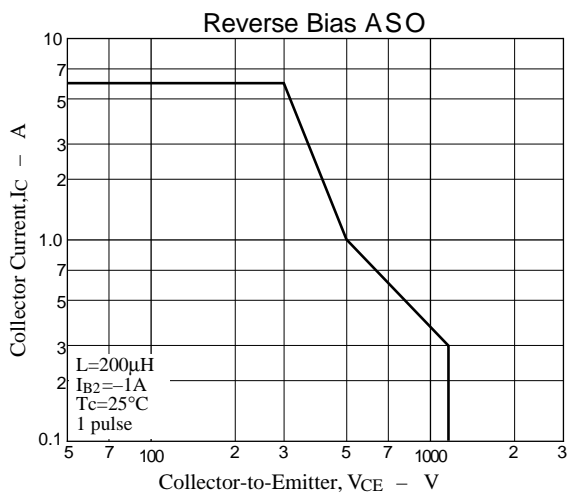
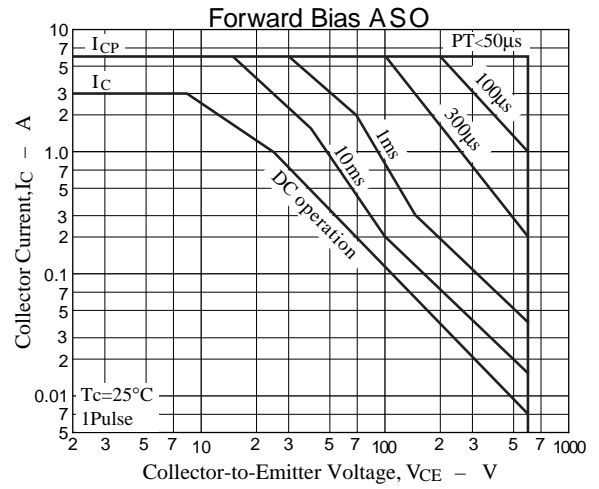
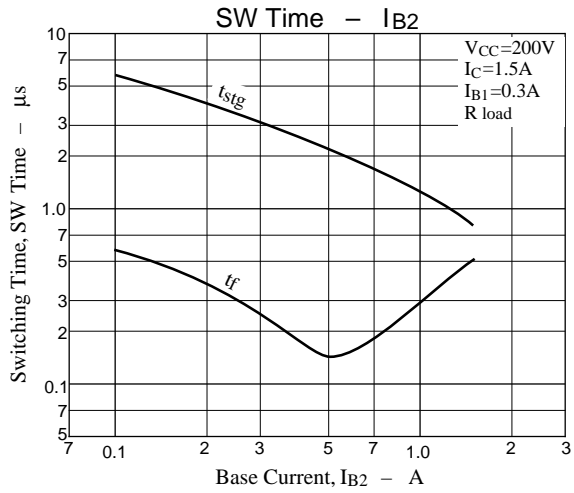
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CB0}		1200	V
Collector-to-Emitter Voltage	V _{CEO}		600	V
Emitter-to-Base Voltage	V _{EBO}		9	V
Collector Current	I _C		3	A
Collector Current (Pulse)	I _{CP}		6	A
Collector Dissipation	P _C		2	W
		T _c =25°C	25	W
Junction Temperature	T _j		150	°C
Storage Temperature	T _{stg}		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I _{CB0}	V _{CB} =600V, I _E =0			10	µA
Collector Cutoff Current	I _{CES}	V _{CE} =1200V, R _{BE} =0			1.0	mA
Collector 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
C-E Saturation Voltage	V _{CE(sat)}	I _C =1.5A, I _B =0.3A			1.0	V
B-E Saturation Voltage	V _{BE(sat)}	I _C =1.5A, I _B =0.3A			1.5	V
DC Current Gain	h _{FE(1)}	V _{CE} =5V, I _C =0.1A	30	40	50	
	h _{FE(2)}	V _{CE} =5V, I _C =1.0A	10			
Storage Time	t _{stg}	I _C =1.5A, I _{B1} =0.3A, I _{B2} =-0.6A			2.5	µs
Fall Time	t _f	I _C =1.5A, I _{B1} =0.3A, I _{B2} =-0.6A			0.15	µs

Switching Time Test Circuit





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