TS7920



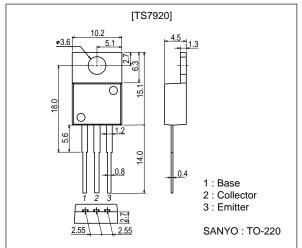
For Inverter Lighting Equipment

Features

- · Best suited for push-pull inverter circuit.
- High breakdown voltage (V_{CBO}=1200V).
- · High reliability (Adoption of HVP process).
- · Adoption of MBIT process.

Package Dimensions

unit : mm 2010C



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		1200	V
Collector-to-Emitter Voltage	VCEO		600	V
Emitter-to-Base Voltage	VEBO		9	V
Collector Current	IC		4	А
Collector Current (Pulse)	ICP		8	Α
Collector Dissipation	Do		1.75	W
	PC	Tc=25°C	70	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	Offic
Collector Cutoff Current	ICBO	V _{CB} =600V, I _E =0			10	μΑ
Collector Cutoff Current	ICES	V _{CE} =1200V, R _{BE} =0			1.0	mA
Collector Sustain Voltage	VCEO(sus)	I _C =100mA, I _B =0	600			V
Emitter Cutoff Current	IEBO	V _{EB} =9V, I _C =0			1.0	mA

Continued on next page.

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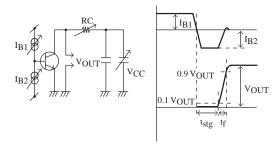
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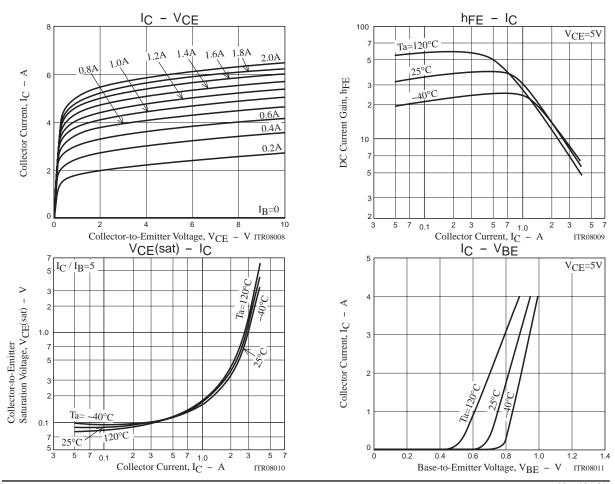
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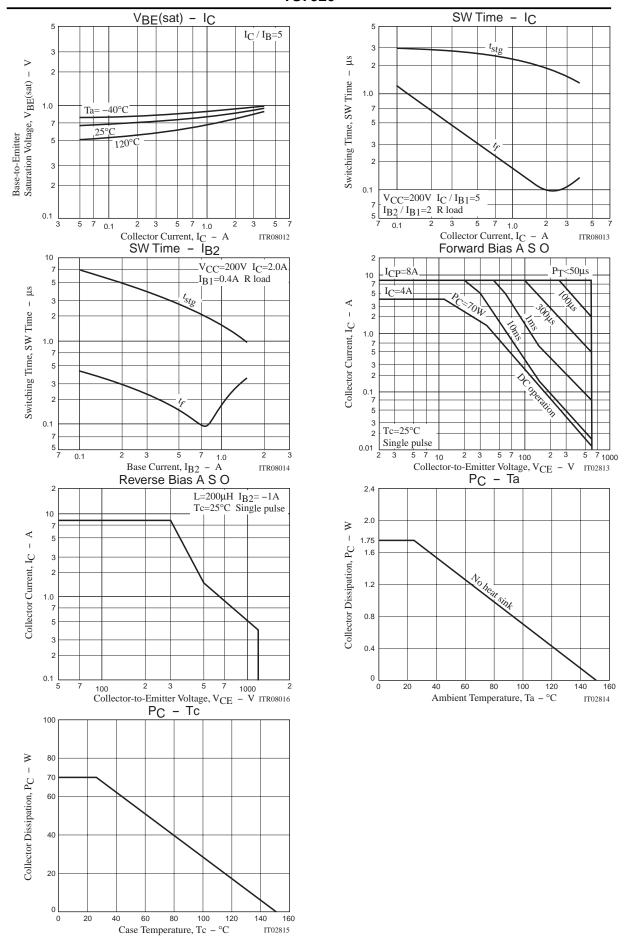
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
DC Current Gain	hFE1	VCE=5V, IC=0.3A	30	40	50	
	hFE2	V _{CE} =5V, I _C =1.5A	10			
Collector-to-Emitter Saturation Voltage	VCE(sat)	I _C =2.0A, I _B =0.4A			1.0	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	I _C =2.0A, I _B =0.4A			1.5	V
Storage Time	tstg	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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