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Ordering number : ENN7670

NPN Triple Diffused Planar Silicon Transistor

TT2170LS

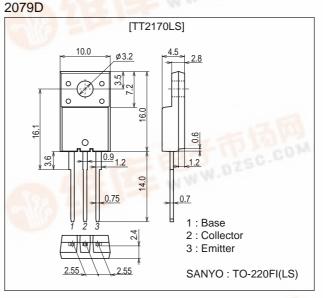
Color TV Horizontal Deflection Output Applications

Features

- High speed.
- High breakdown voltage(VCBO=1500V).
- High reliability(Adoption of HVP process).
- · Adoption of MBIT process. WWW.DZSC.COM
- · On-chip damper diode.

Package Dimensions

unit : mm



Specifications

Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		1500	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		5	А
Collector Current (Pulse)	ICP	192 4 5 5	12	А
Collector Dissipation	Da	1.60 6000	2.0	W
	PC	Tc=25°C	25	W
Junction Temperature	Tj	C.COm	150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector Cutoff Current	ICBO	V _{CB} =800V, I _E =0	- C	A-L	10	μΑ
Collector Cutoff Current	ICES	V _{CE} =1500V, R _{BE} =0		Ser.	1.0	mA
Collector Sustain Voltage	V _{CEO} (sus)	IC=100mA, IB=0	800	NAL.		V
Emitter Cutoff Current	IEBO	V _{BE} =4V, I _C =0	40		130	mA

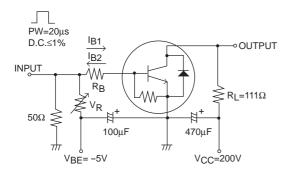
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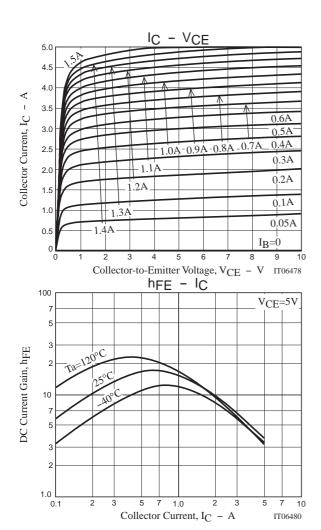
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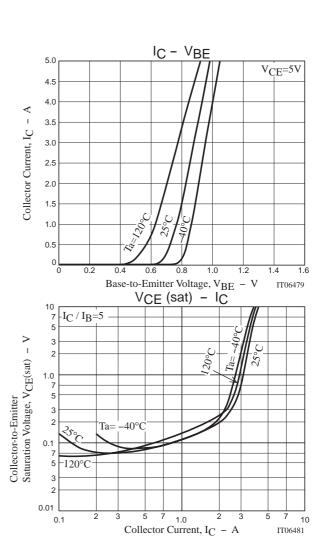
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=2.7A, IB=0.54A			3	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	IC=2.7A, IB=0.54A			1.5	V
DC Current Gain	hFE1	V _{CE} =5V, I _C =0.5A	10			
	hFE2	VCE=5V, IC=3A	5		8	
Diode Forward Voltage	VF	IEC=4A			2	V
Fall Time	tf	I _C =1.8A, I _{B1} =0.36A, I _{B2} =-0.72A			0.3	μs

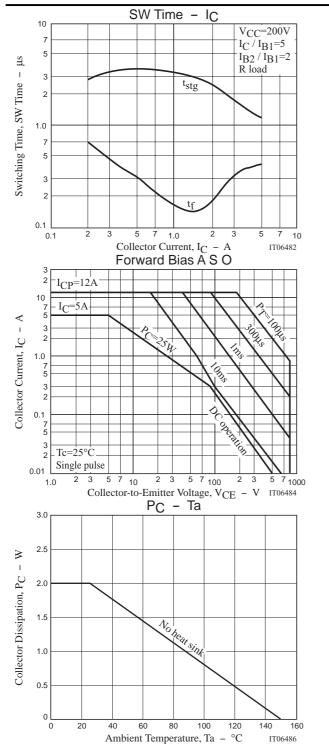
Switching Time Test Circuit

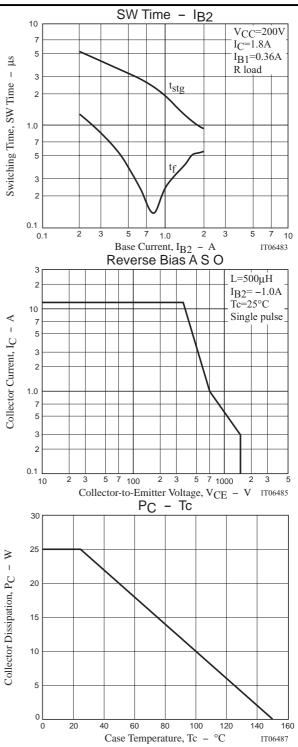






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