

2SC6117 — Color TV Horizontal Deflection Output Applications

Features

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

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		6	V
Collector Current	IC		8	А
Collector Current (Pulse)	ICP		20	А
Collector Dissipation	De		3.0	W
	PC	Tc=25°C	65	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	VCB=800V, IE=0A			10	μΑ
Collector Cutoff Current	ICES	V _{CE} =1500V, R _{BE} =0Ω			1.0	mA
Collector Sustain Voltage	VCEO(sus)	IC=100mA, IB=0A	800			V
Emitter Cutoff Current	IEBO	VEB=4V, IC=0A	40		130	mA

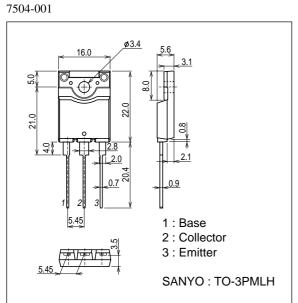
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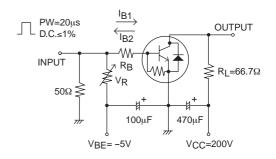
Parameter	Symbol	Conditions		Ratings		
			min	typ	max	Unit
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=4.5A, IB=0.9A			2	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	IC=4.5A, IB=0.9A			1.5	V
DC Current Gain	hFE1	VCE=5V, IC=1A	10			
	hFE2	VCE=5V, IC=5A	5.3		7.5	
Diode Forward Voltage	VF	IEC=7A			2	V
Fall Time	tf	IC=3A, IB1=0.6A, IB2=-1.2A			0.2	μS

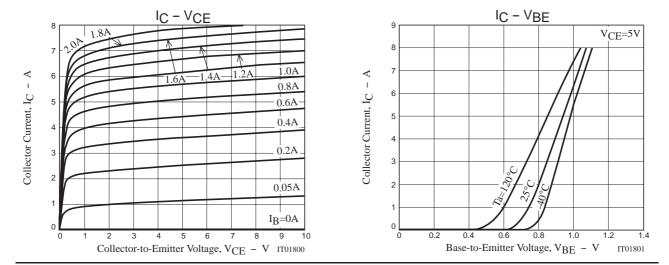
Package Dimensions

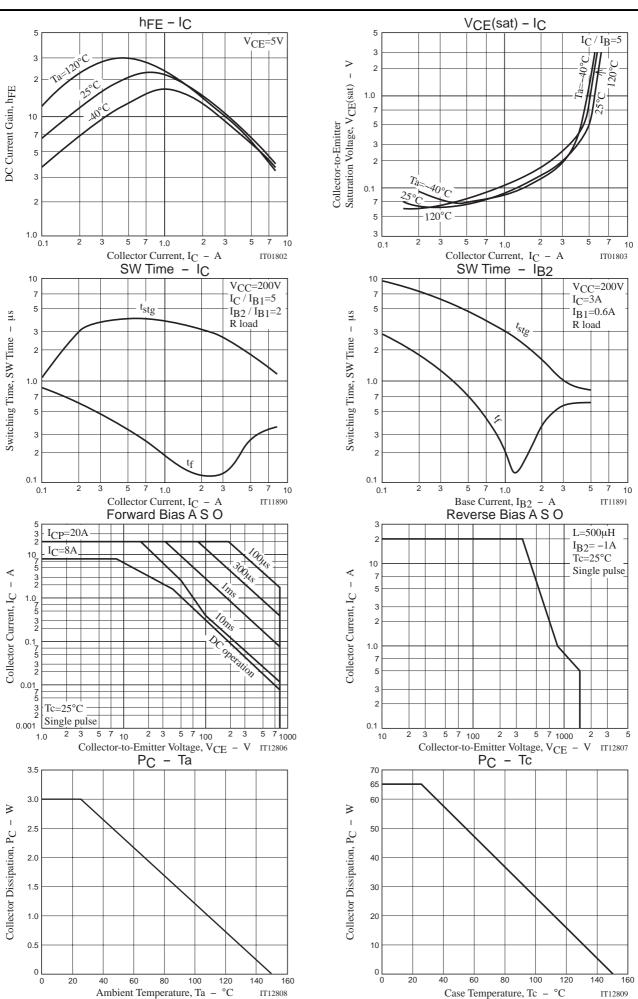
unit : mm (typ)



Switching Time Test Circuit







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