

2SD2646 — Color TV Horizontal Deflection Output Applications

Features

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

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		700	V
Emitter-to-Base Voltage	VEBO		5	V
Collector Current	IC		10	A
Collector Current (Pulse)	ICP		25	A
Collector Dissipation	D-		3.0	W
	PC	Tc=25°C	80	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions		Ratings		
Faranieter			min	typ	max	Unit
Collector Cutoff Current	ICBO	V _{CB} =800V, I _E =0			10	μA
	ICES	VCE=1500V, RBE=0			1.0	mA
Collector Sustain Voltage	VCEO(sus)	I _C =100mA, I _B =0	700			V
Emitter Cutoff Current	IEBO	VEB=4V, IC=0			1.0	mA
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=7.2A, IB=1.44A			3	V
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	I _C =7.2A, I _B =1.44A			1.5	V
DC Current Gain	hFE1	VCE=5V, IC=1A	15			
	hFE2	VCE=5V, IC=8A	5		8	
Fall Time	tf	IC=5A, IB1=1A, IB2=-2A			0.3	μs

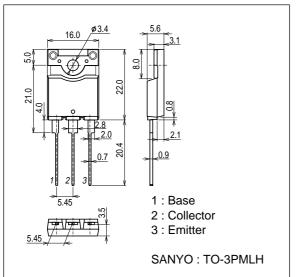
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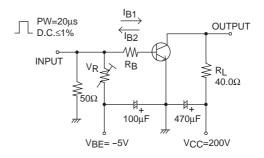
Package Dimensions

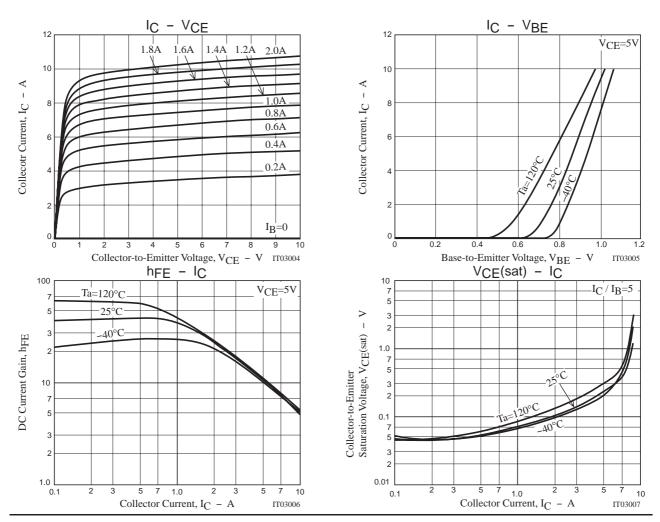


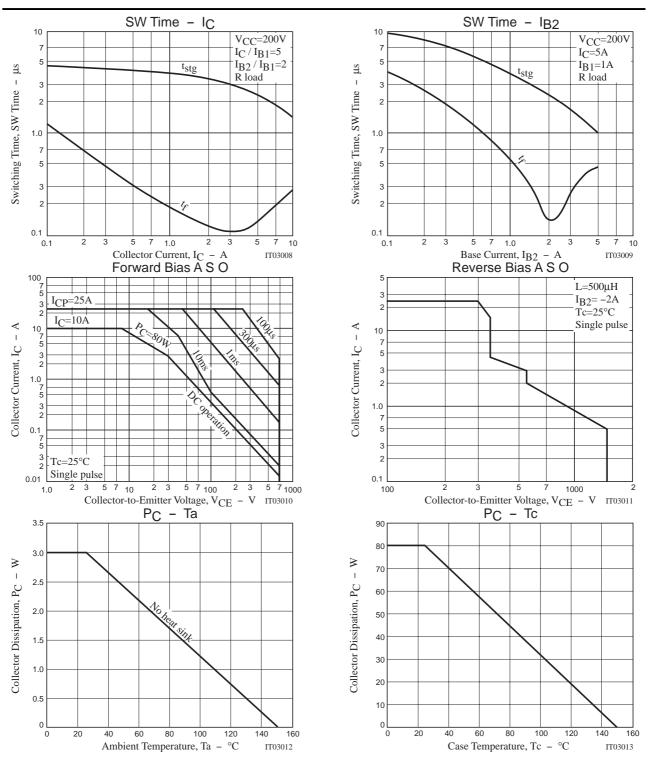




Switching Time Test Circuit







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