Ordering number : ENN6922

NPN Triple Diffused Planar Silicon Transistor



2SD2646

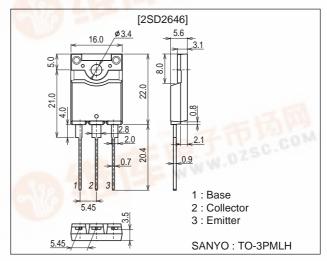
Color TV Horizontal Deflection Output Applications

Features

- · High speed.
- High breakdown voltage(V_{CBO}=1500V).
- · High reliability(Adoption of HVP process).
- Adoption of MBIT process.

Package Dimensions

unit : mm 2174A



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	4.6	10	Α
Collector Current (Pulse)	ICP	100 11	25	Α
Collector Dissipation	PC		3.0	W
		Tc=25°C	80	W
Junction Temperature	Tj	A COL	150	°C
Storage Temperature	Tstg	C. C.	-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=0	100		10	μΑ
Collector Cutoff Current	ICES	V _{CE} =1500V, R _{BE} =0		H-7	1.0	mA
Collector Sustain Voltage	VCEO(sus)	I _C =100mA, I _B =0	700	Tak W.	10.1	V
Emitter Cutoff Current	IEBO	VBE=4V, IC=0			1.0	mA

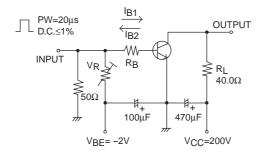
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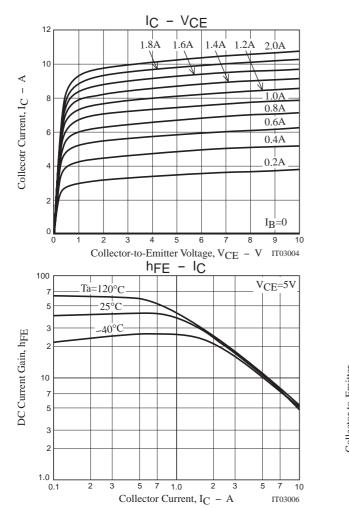
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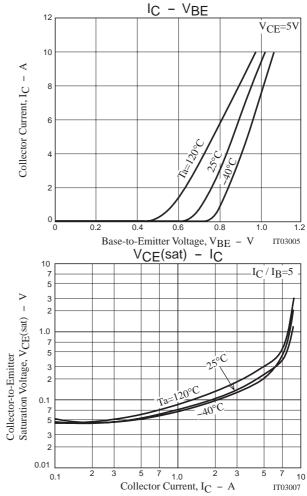
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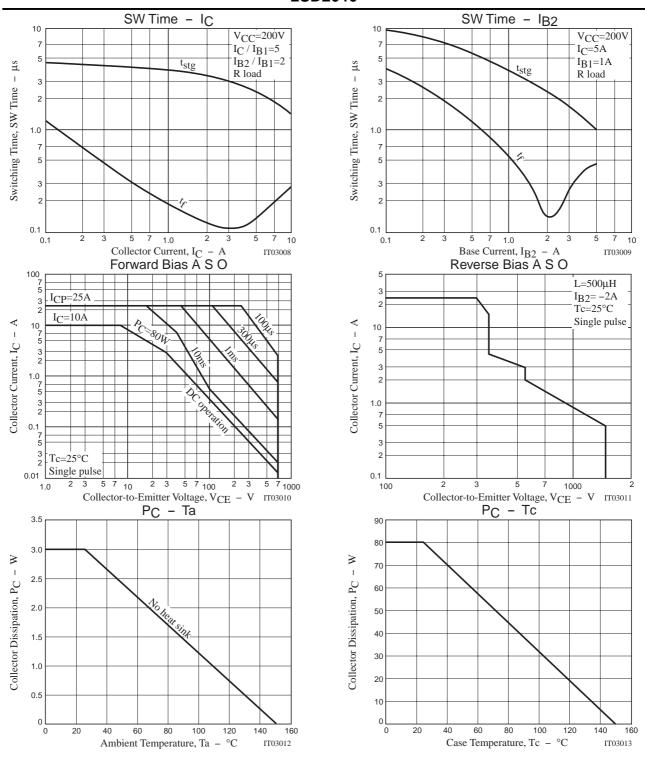
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
Collector-to-Emitter Saturation Voltage	VCE(sat)	IC=7.2A, IB=1.44A			3	٧
Base-to-Emitter Saturation Voltage	V _{BE} (sat)	I _C =7.2A, I _B =1.44A			1.5	٧
DC Current Gain	hFE1	V _{CE} =5V, I _C =1A	15			
	hFE2	VCE=5V, IC=8A	5		8	
Fall Time	t _f	I _C =5A, I _{B1} =1A, I _{B2} =-2A			0.3	μs

Switching Time Test Circuit









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