NPN Triple Diffused Planar Silicon Transistor



2SD2578

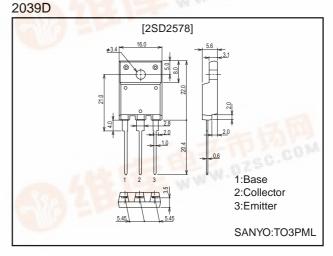
Color TV Horizontal Deflection Output Applications

Features

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

Package Dimensions

unit:mm



Specifications

Absolute Maximum Ratings at $Ta = 25^{\circ}C$

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		1500	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	V _{EBO}		6	V
Collector Current	IC	SN(6) =	8	Α
Collector Current (pulse)	ICP	This do	20	Α
Collector Dissipation	PC	COM	3.0	W
	075	Tc=25°C	60	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditons	Ratings			Unit
	Symbol		min	typ	max	Offic
Collector Cutoff Current	I _{CBO}	V _{CB} =800V, I _E =0		M:01	10	μΑ
Collector Cutoff Current	ICES	V _{CE} =1500V, R _{BE} =0			1.0	mA
Collector Sustain Voltage	VCEO(sus)	I _C =100mA, I _B =0	800			V
Emitter Cutoff Current	I _{EBO}	V _{EB} =4V, I _C =0	40		130	mA

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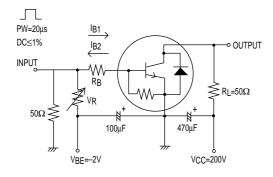
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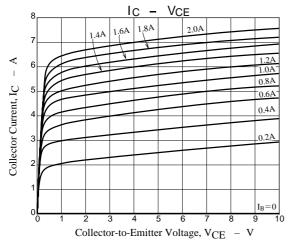
SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquaters

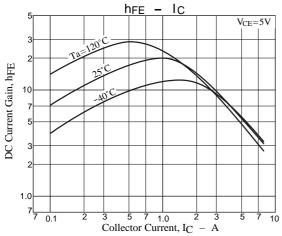
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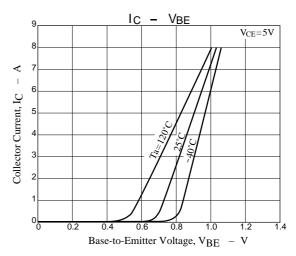
Parameter	Symbol	Conditons	Ratings			Unit
			min	typ	max	Onn
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =5A, I _B =1A			5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =5A, I _B =1A			1.5	V
DC Current Gain	h _{FE} 1	V _{CE} =5V, I _C =1A	15		30	
	h _{FE} 2	V _{CE} =5V, I _C =5A	5		8	
Fall Time	t _f	I _C =4A, I _{B1} =0.8A, I _{B2} =-1.6A			0.3	μs

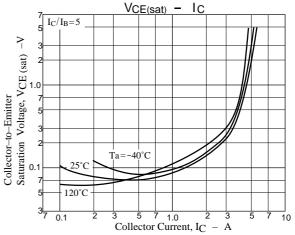
Switching Time Test Circuit

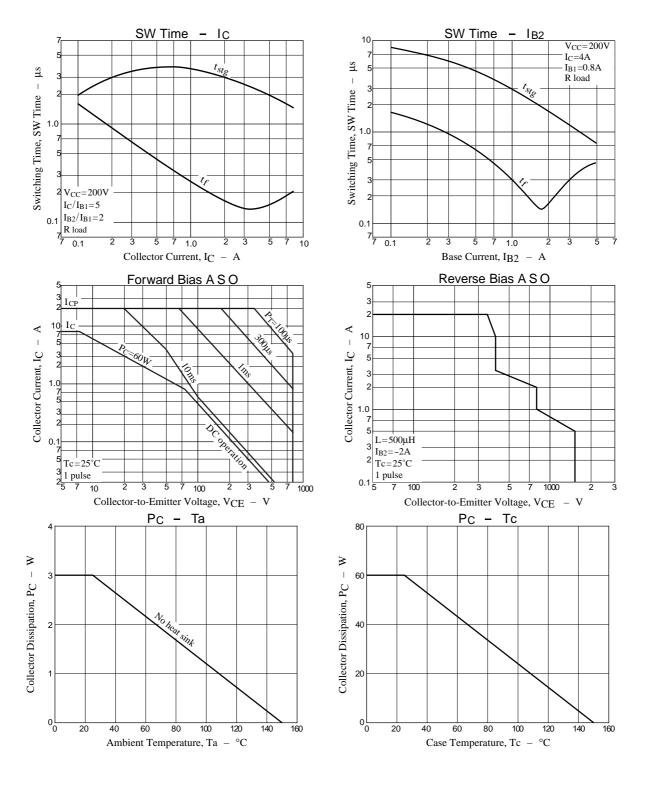












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