Ordering number: ENN6352

NPN Triple Diffused Planar Silicon Transistor



2SD2629

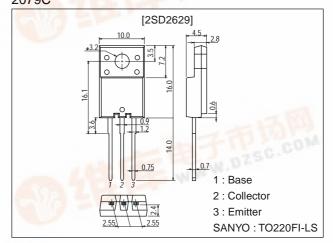
# Color TV Horizontal Deflection Output Applications

#### **Features**

- · High speed.
- · High breakdown voltage (V<sub>CBO</sub>=1500V).
- · High reliability (Adoption of HVP process).
- · Adoption of MBIT process.
- · On-chip damper diode.

## **Package Dimensions**

unit:mm 2079C



# **Specifications**

### Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V <sub>CBO</sub>		1500	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	V <sub>EBO</sub>	146	6	V
Collector Current	IC	The same of the	6	Α
Collector Current (pulse)	I <sub>CP</sub>	A RADE TO THE PARTY OF	15	Α
Collector Dissipation	D -	A THE TIME W	2.0	W
	PC	Tc=25°C	35	W
Junction Temperature	Tj	LIM WILLIAM	150	°C
Storage Temperature	Tstg	DEST	-55 to +150	°C

#### Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Collector Cutoff Current	I <sub>CBO</sub>	V <sub>CB</sub> =800V, I <sub>E</sub> =0			10	μΑ
Collector Cutoff Current	ICES	V <sub>CE</sub> =1500V, R <sub>BE</sub> =0	1.0	1.77	1.0	mA
Collector Sustain Voltage	V <sub>CEO</sub> (sus)	I <sub>C</sub> =100mA, I <sub>B</sub> =0	800			V
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> =4V, I <sub>C</sub> =0	40	al D	130	mA
Collector-to-Emitter Saturation Voltage	V <sub>CE</sub> (sat)	I <sub>C</sub> =3.5A, I <sub>B</sub> =0.7A	Al Al		5	V
Base-to-Emitter Saturation Voltage	V <sub>BF</sub> (sat)	I <sub>C</sub> =3.5A, I <sub>B</sub> =0.7A			1.5	V

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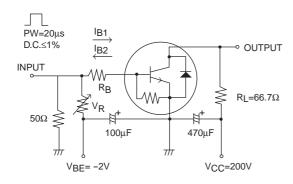
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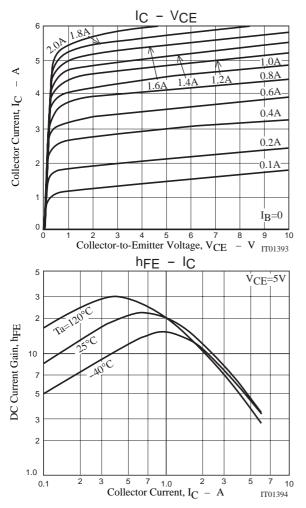
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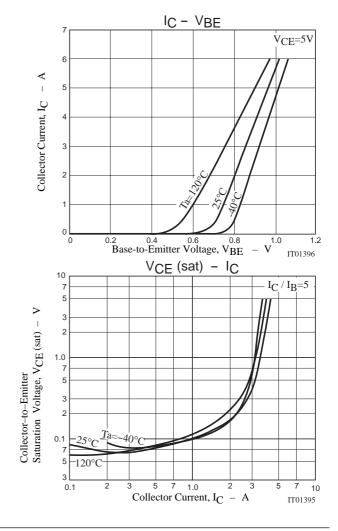
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Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
DC Current Gain	h <sub>FE</sub> 1	V <sub>CE</sub> =5V, I <sub>C</sub> =0.5A	15		30	
	h <sub>FE</sub> 2	V <sub>CE</sub> =5V, I <sub>C</sub> =3.5A	5		8	
Fall Time	t <sub>f</sub>	I <sub>C</sub> =3A, I <sub>B1</sub> =0.6A, I <sub>B2</sub> =-1.2A			0.3	μs

## **Switching Time Test Circuit**

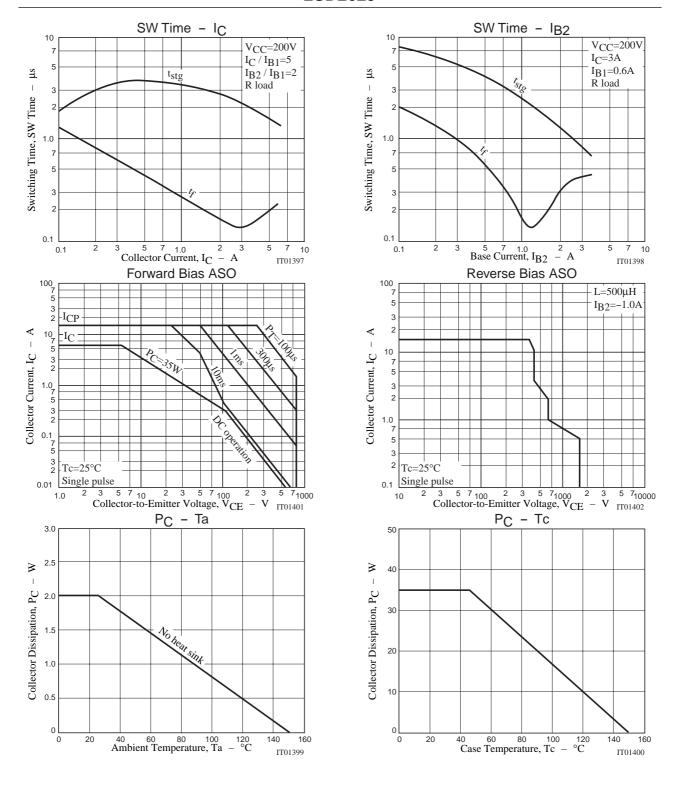








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