2SC5299



Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

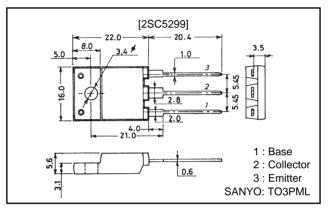
Features

- High Speed : t_f=100ns typ.
- High Breakdown voltage : V_{CBO}=1500V.
- High reliability (Adoption of HVP process).
- Adoption of MBIT process.

Package Dimensions

unit: mm

2039C-TO3PML



Specifications Absolute Maximum Ratings at Ta=25°C

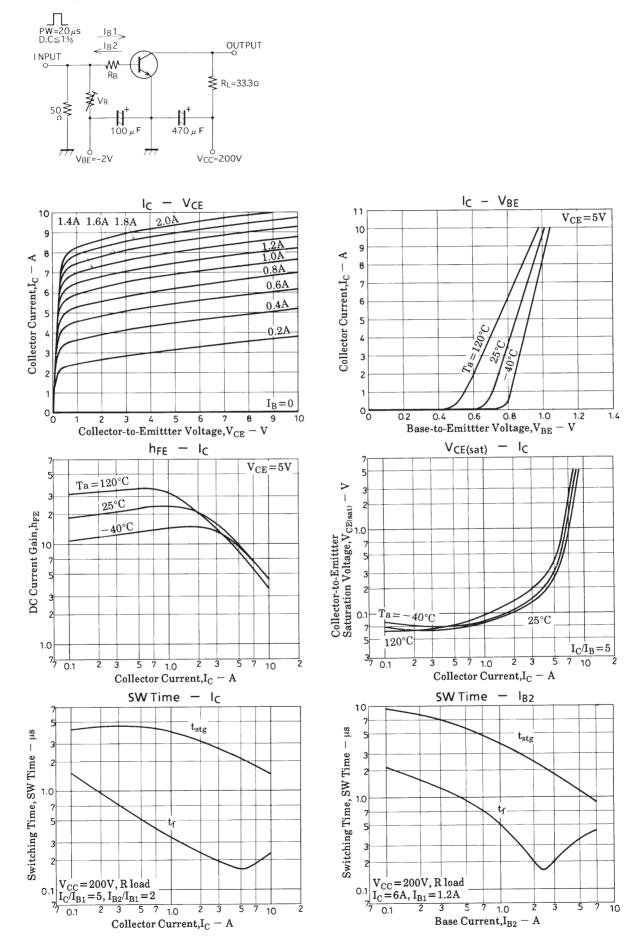
	0			
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	VCBO		1500	V
Collector-to-Emitter Voltage	VCEO		800	V
Emitter-to-Base Voltage	VEBO		6	V
Collector Current	IC		10	Α
Collector Current (Pulse)	ICP		25	Α
Collector Dissipation	PC		3.0	W
		Tc=25°C	70	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

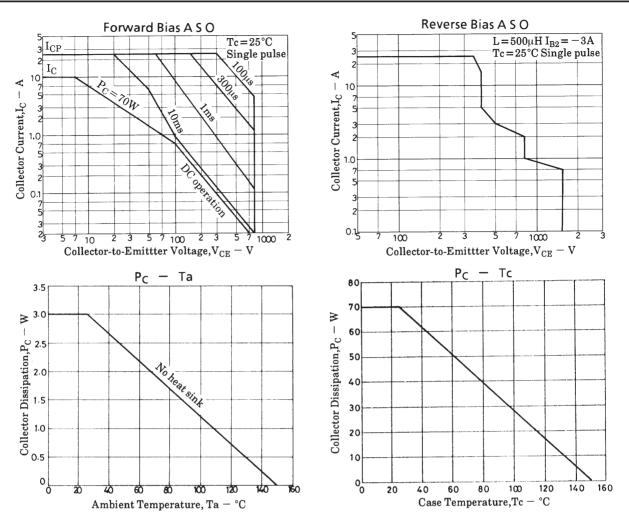
Electrical Characteristics at Ta=25°C

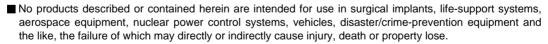
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	ICBO	V _{CB} =800V, I _E =0			10	μA
Collector Cutoff Current	ICES	V _{CE} =1500V, R _{BE} =0			1.0	mA
Collector Sustain Voltage	VCEO(SUS)	IC=100mA, IB=0	800			V
Emitter Cutoff Current	IEBO	VEB=4V, IC=0			1.0	mA
C-E Saturation Voltage	V _{CE(sat)}	IC=8A, IB=2A			5	V
B-E Saturation Voltage	V _{BE(sat)}	I _C =8A, I _B =2A			1.5	V
DC Current Gain	hFE(1)	V _{CE} =5V, I _C =1A	20		30	
	hFE(2)	V _{CE} =5V, I _C =8A	4		7	
Storage Time	t _{stg}	I _C =6A, I _{B1} =1.2A, I _{B2} =-2.4A			3.0	μs
Fall Time	tf	I _C =6A, I _{B1} =1.2A, I _{B2} =-2.4A		0.1	0.2	μs

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Switching Time Test Circuit







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- ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
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