2SC5299



Ultrahigh-Definition CRT Display

Horizontal Deflection Output Applications

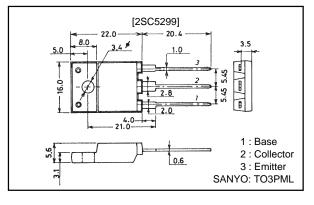
Features

- High Speed : tf=100ns typ.
- High Breakdown voltage : VCBO=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

	•			
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	А
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

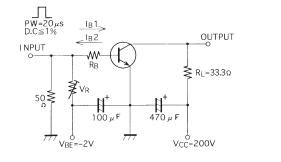
Electrical Characteristics at Ta=25°C

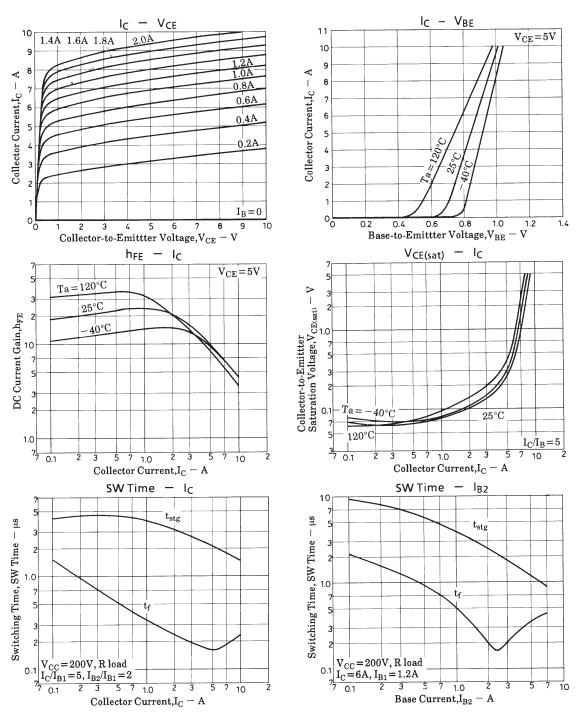
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Unit
Collector Cutoff Current	ICBO	V _{CB} =800V, I _E =0			10	μA
Collector Cutoff Current	ICES	V _{CE} =1500V, R _{BE} =0			1.0	mA
Collector Sustain Voltage	VCEO(SUS)	I _C =100mA, I _B =0	800			V
Emitter Cutoff Current	IEBO	V _{EB} =4V, I _C =0			1.0	mA
C-E Saturation Voltage	VCE(sat)	I _C =8A, I _B =2A			5	V
B-E Saturation Voltage	VBE(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

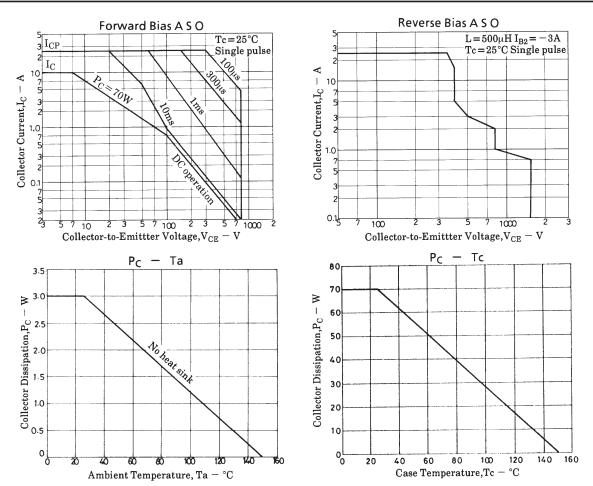
SANYO Electric Co., Ltd. Semiconductor Bussiness Headquarters TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110 JAPAN

11697YK (KOTO) TA-0588 No.5293-1/3

Switching Time Test Circuit







- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property lose.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:

 Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
 - 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.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of January, 1997. Specifications and information herein are subject to change without notice.