



Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

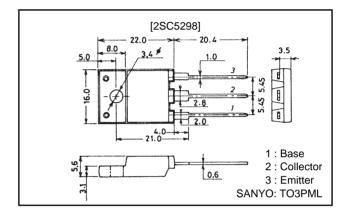
Features

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

Package Dimensions

unit: mm

2039C-TO3PML



Specifications

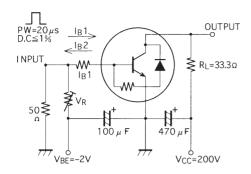
Absolute Maximum Ratings at Ta=25°C

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	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

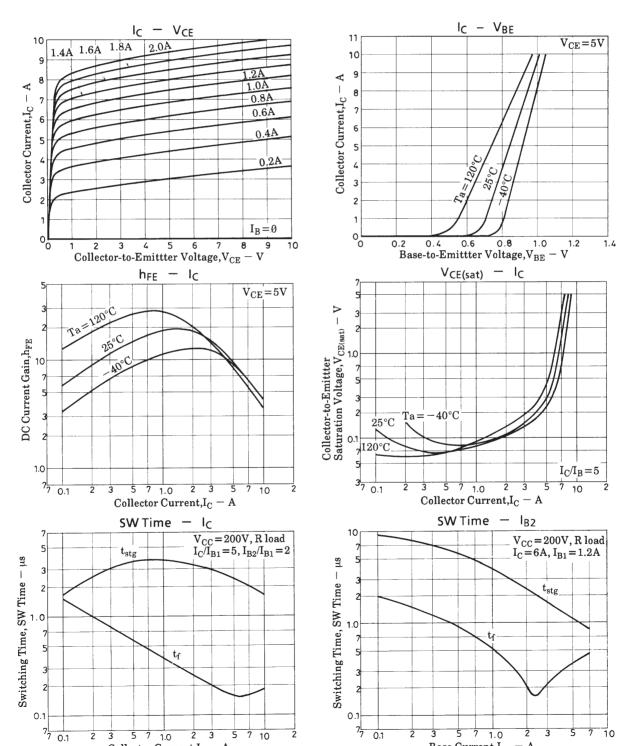
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Uill
Collector Cutoff Current	ICBO	V _{CB} =800V, I _E =0			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	IEBO	V _{EB} =4V, I _C =0	40		130	mA
C-E Saturation Voltage	VCE(sat)	I _C =8A, I _B =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	15		25	
	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

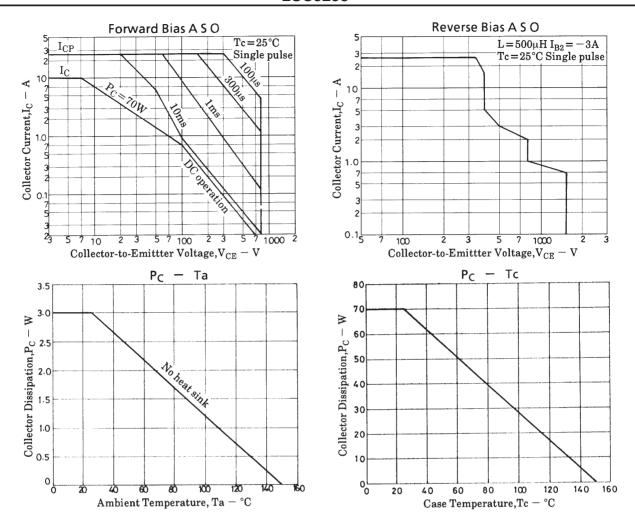
Switching Time Test Circuit



Collector Current, I_C - A



Base Current, $I_{B2} - A$



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