

No.5363A

NPN Triple Diffused Planar Silicon Transistor

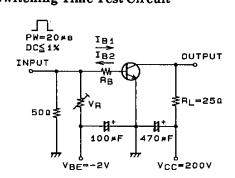
Ultrahigh-Definition Color Display Horizontal Deflection Output Applications

## **Features**

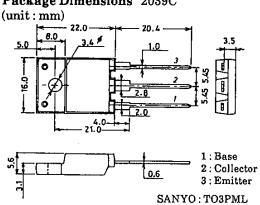
- · High speed ( $t_f = 100$ ns typ).
- · High breakdown voltage ( $V_{CBO} = 1500V$ ).
- · High reliability (Adoption of HVP process).
- · Adoption of MBIT process.

Absolute Maximum Ratings at Ta = 25°C					unit	;
Collector-to-Base Voltage	$V_{CBO}$		1	500	V	
Collector-to-Emitter Voltage	$V_{CEO}$			800	V	
Emitter-to-Base Voltage	$V_{EBO}$			6	V	
Collector Current	$I_{\mathbf{C}}$			15	Α	
Collector Current (Pulse)	$I_{CP}$			35	Α	
Collector Dissipation	$P_{\mathbf{C}}$			3	W	
-	Ü	Tc = 25°C		75	W	
Junction Temperature	Tj		150		°C	
Storage Temperature	Tstg		-55  to  +150		°C	
Electrical Characteristics at Ta = 25°C			min	typ	max	unit
Collector Cutoff Current	$I_{CES}$	$V_{CE} = 1500V, R_{BE} = 0$		-J F	1.0	mA
Collector Sustain Voltage	V <sub>CEO(sus)</sub>	$I_C = 100 \text{mA}, I_B = 0$	800			V
Emitter Cutoff Current	IEBO	$V_{EB}=4V,I_C=0$			1.0	mA
Collector Cutoff Current	I <sub>CBO</sub>	$V_{CB} = 800V, I_{E} = 0$			10	$\mu \mathbf{A}$
DC Current Gain	$h_{FE}(1)$	$V_{CE} = 5V, I_{C} = 1.0A$	20		30	¥ ··· =
	$h_{FE}(2)$	$V_{CE} = 5V, I_{C} = 12A$	4		7	
C-E Saturation Voltage	V <sub>CE(sat)</sub>	$I_C=12A, I_B=3A$			5	V
B-E Saturation Voltage	VBE(sat)	$I_{C} = 12A, I_{B} = 3A$			1.5	v
Storage Time	t <sub>stg</sub>	$I_C = 8A, I_B I = 1.6A, I_B 2 = -3.2A$			3.0	μs
Fall Time	tf	$I_C = 8A, I_B 1 = 1.6A, I_B 2 = -3.2A$			0.2	นร

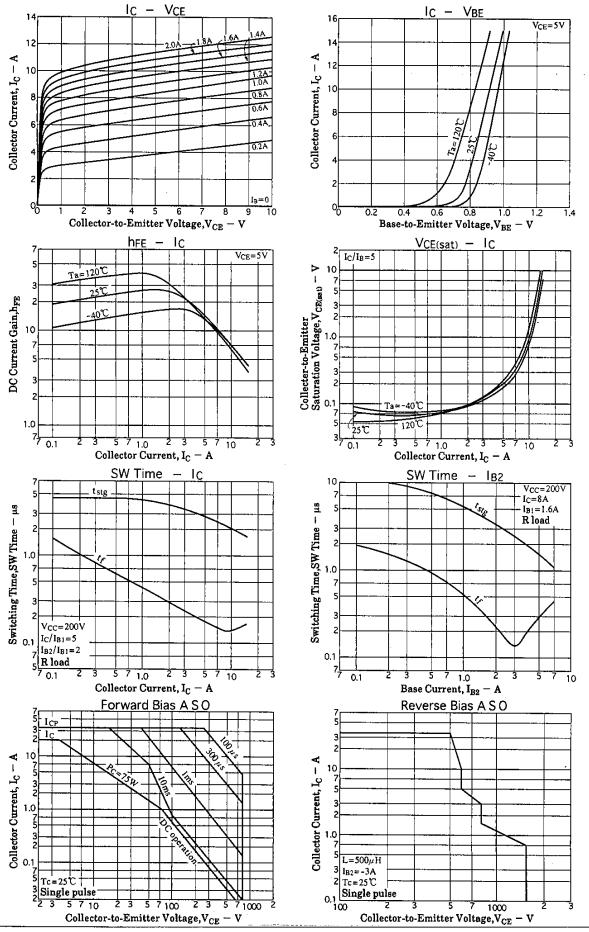
## Switching Time Test Circuit

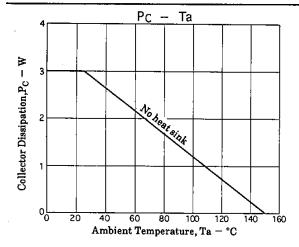


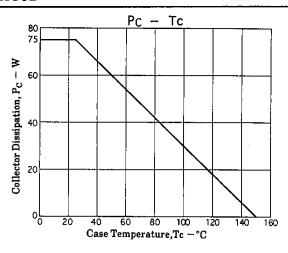
## Package Dimensions 2039C



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







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