

**2SD1908**

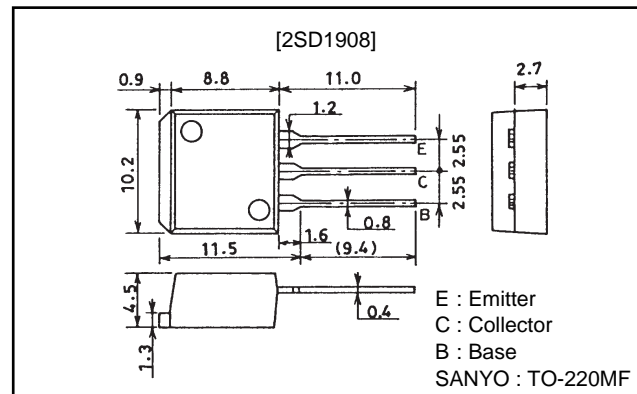
CRT Display Horizontal Deflection Output Applications

Features

- Fast switching speed.
- Especially suited for use in high-definition CRT display :
 $V_{CC}=6$ to $12V$.
- Wide ASO and highly resistant to breakdown.

Package Dimensions

unit: mm

2049B-TO-220MF

Specifications

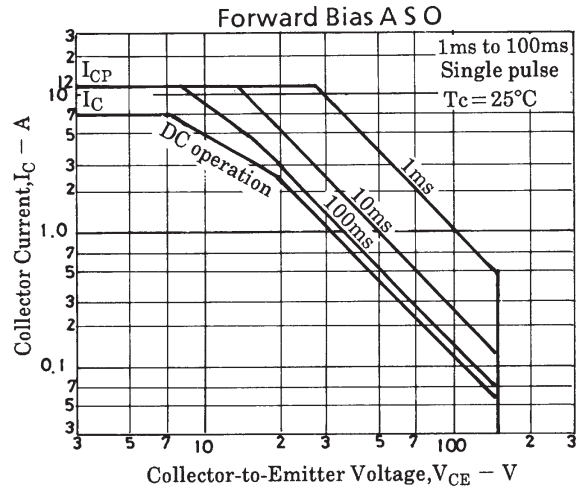
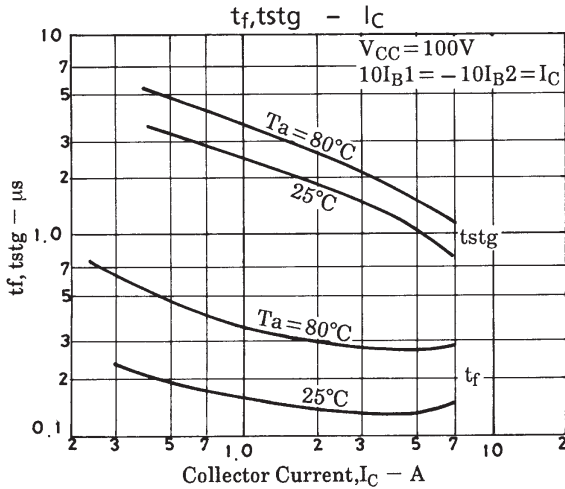
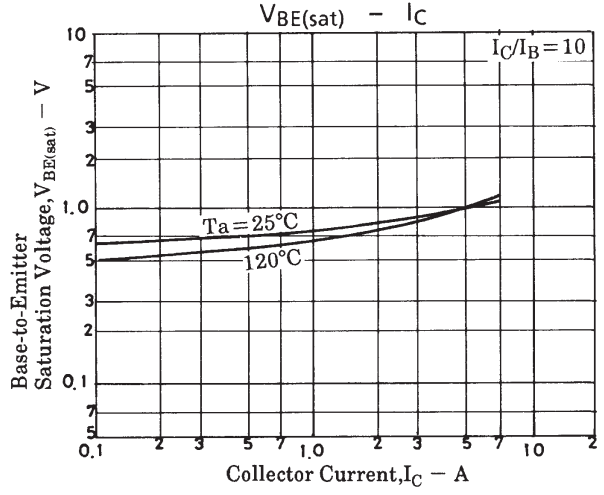
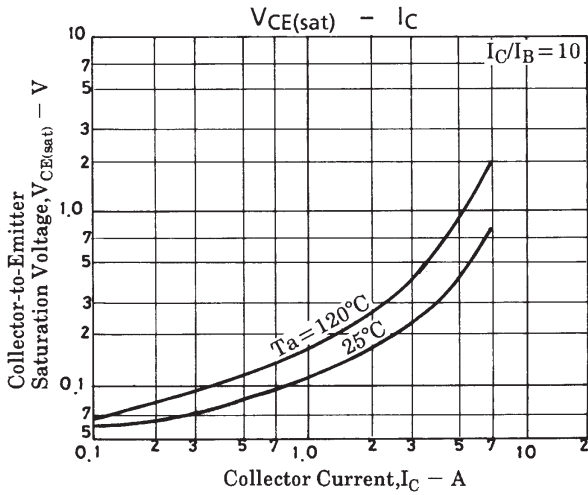
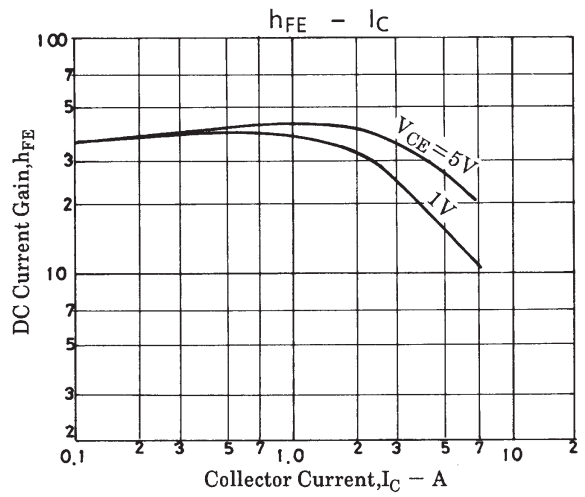
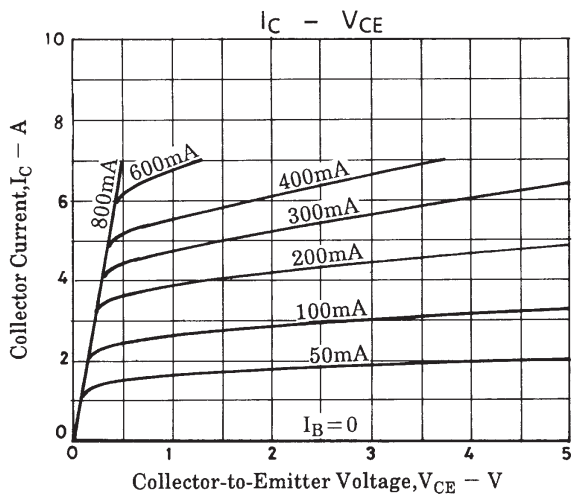
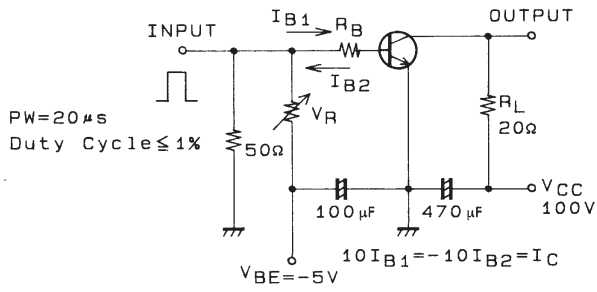
Absolute Maximum Ratings at $T_a=25^\circ C$

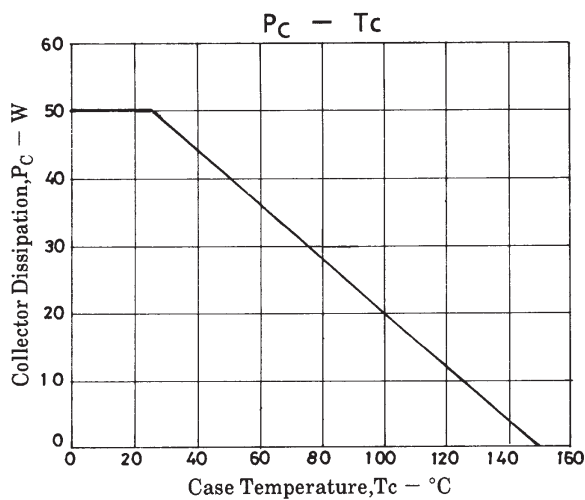
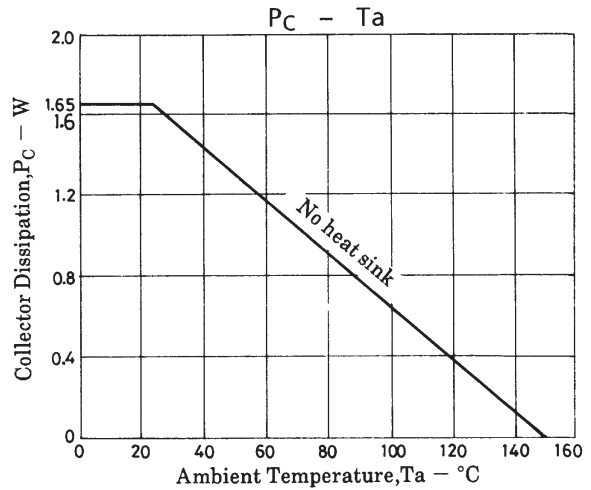
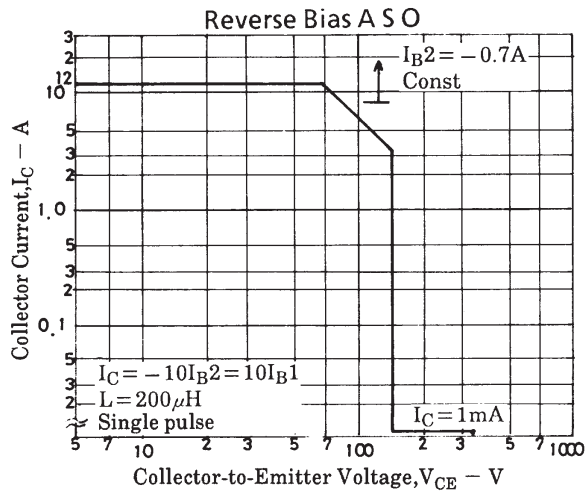
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V_{CBO}		330	V
Collector-to-Emitter Voltage	V_{CEO}		150	V
Emitter-to-Base Voltage	V_{EBO}		6	V
Collector Current	I_C		7	A
Collector Current (Pulse)	I_{CP}		12	A
Base Current	I_B		4	A
Collector Dissipation	P_C		1.65	W
		$T_c=25^\circ C$	50	W
Junction Temperature	T_j		150	$^\circ C$
Storage Temperature	T_{stg}		-55 to +150	$^\circ C$

Electrical Characteristics at $T_a=25^\circ C$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Collector Cutoff Current	I_{CB0}	$V_{CB}=200V, I_E=0$			100	μA
Emitter Cutoff Current	I_{EB0}	$V_{EB}=5V, I_C=0$			100	mA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=1V, I_C=1A$	15			
	$h_{FE(2)}$	$V_{CE}=1V, I_C=5A$	10		50	
Gain-Bandwidth Product	f_T	$V_{CE}=10V, I_C=0.5A$	10	40		MHz
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C=5A, I_B=0.5A$			1	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C=5A, I_B=0.5A$			1.2	V
C-B Breakdown Voltage	$V_{(BR)CBO}$	$I_C=1mA, I_E=0$	330			V
C-E Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1mA, R_{BE}=\infty$	150			V
E-B Breakdown Voltage	$V_{(BR)EBO}$	$I_E=1mA, I_C=0$	6			V
Fall Time	t_f	$I_C=5A, I_{B1}=-I_{B2}=0.5A$			0.5	μs

Switching Time Test Circuit





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