

Ultrahigh-Definition CRT Display Horizontal Deflection Output Applications

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

Collector-to-Base Voltage	V_{CB0}	1500	V
Collector-to-Emitter Voltage	V_{CE0}	800	V
Emitter-to-Base Voltage	V_{EB0}	6	V
Collector Current	I_C	8	A
Collector Current (Pulse)	I_{CP}	16	A
Collector Dissipation	P_C	3.0	W
	$T_c = 25^\circ\text{C}$	60	W
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

			min	typ	max	unit
Collector Cutoff Current	I_{CBO}	$V_{CE}=800V, I_E=0$			10	μA
Collector Cutoff Current	I_{CES}	$V_{CE}=1500V, R_{BE}=0$			1.0	mA
Collector Sustaining Voltage	$V_{CEO(SUS)}$	$I_C=100mA, I_B=0$	800			V
Emitter Cutoff Current	I_{EBO}	$V_{EB}=4V, I_C=0$	40		130	mA
C-E Saturation Voltage	$V_{CE(sat)}$	$I_C=5A, I_B=1.25A$			5	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C=5A, I_B=1.25A$			1.5	V
DC Current Gain	$h_{FE(1)}$	$V_{CE}=5V, I_C=1A$	15		25	
	$h_{FE(2)}$	$V_{CE}=5V, I_C=5A$	4		7	
Storage Time	t_{stg}	$I_C=4A, I_{B1}=0.8A, I_{B2}=-1.6A$			3.0	μs
Fall Time	t_f	$I_C=4A, I_{B1}=0.8A, I_{B2}=-1.6A$		0.1	0.2	μs

Technical drawing of the TO3PMT transistor package showing top, side, and detail views with dimensions in millimeters.

Top View Dimensions:

- Overall width: 22.0
- Overall length: 20.4
- Pin 1 (Base) diameter: 3.4
- Pin 2 (Collector) diameter: 2.6
- Pin 3 (Emitter) diameter: 2.0
- Pin 1 to Pin 2 distance: 21.0
- Pin 2 to Pin 3 distance: 4.0
- Pin 1 to Pin 3 distance: 21.0
- Pin 1 to Pin 2 distance (center to center): 21.0
- Pin 2 to Pin 3 distance (center to center): 4.0
- Pin 1 to Pin 3 distance (center to center): 21.0
- Pin 1 to Pin 2 distance (center to center): 21.0
- Pin 2 to Pin 3 distance (center to center): 4.0
- Pin 1 to Pin 3 distance (center to center): 21.0

Side View Dimensions:

- Overall height: 16.0
- Pin 1 (Base) height: 5.0
- Pin 2 (Collector) height: 5.45
- Pin 3 (Emitter) height: 5.45
- Pin 1 to Pin 2 distance: 21.0
- Pin 2 to Pin 3 distance: 4.0
- Pin 1 to Pin 3 distance: 21.0

Detail View Dimensions:

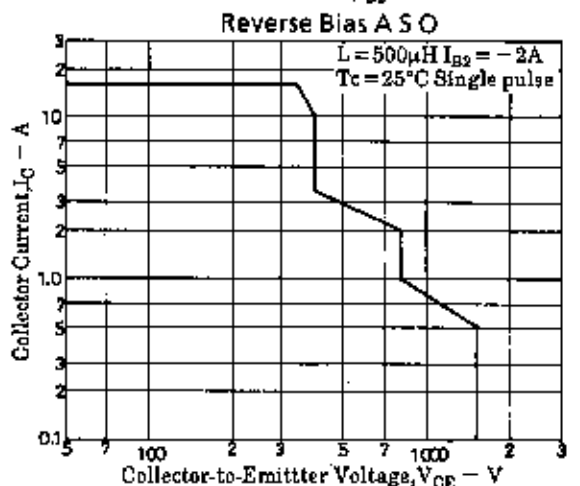
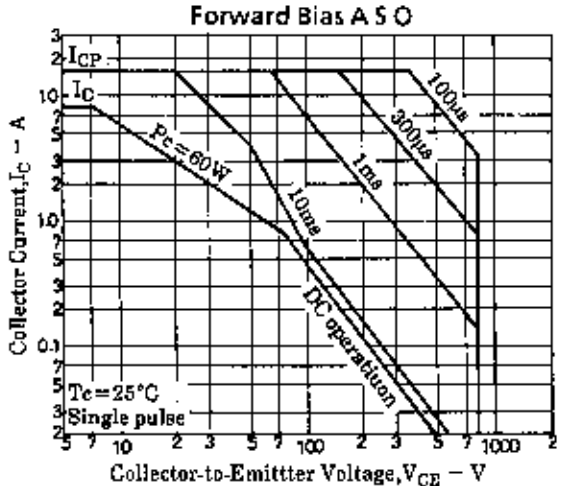
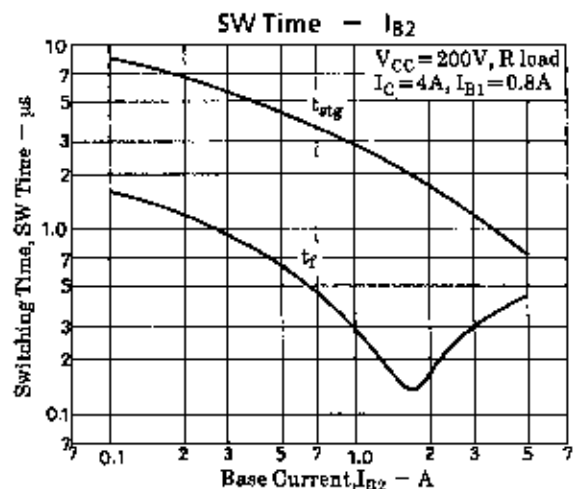
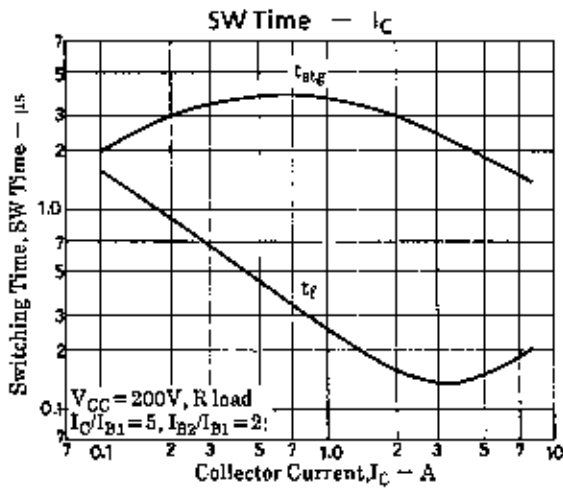
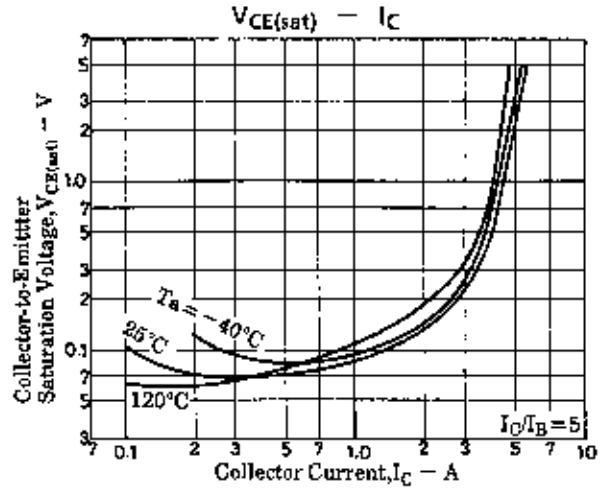
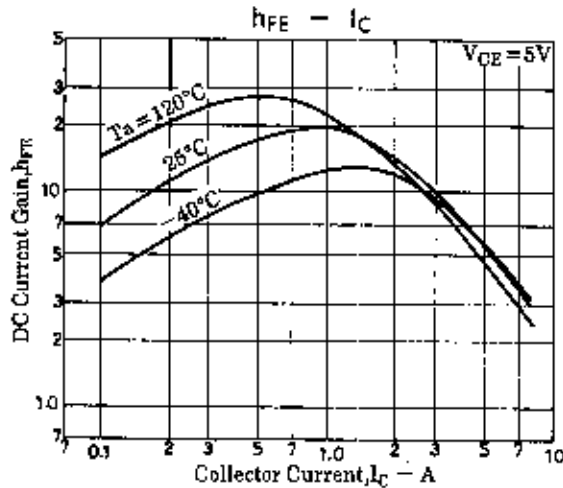
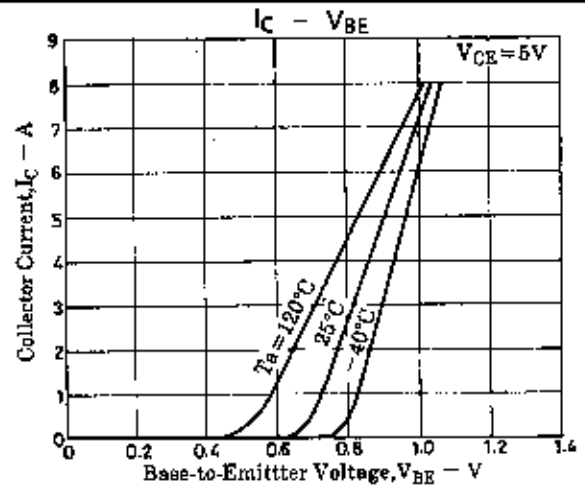
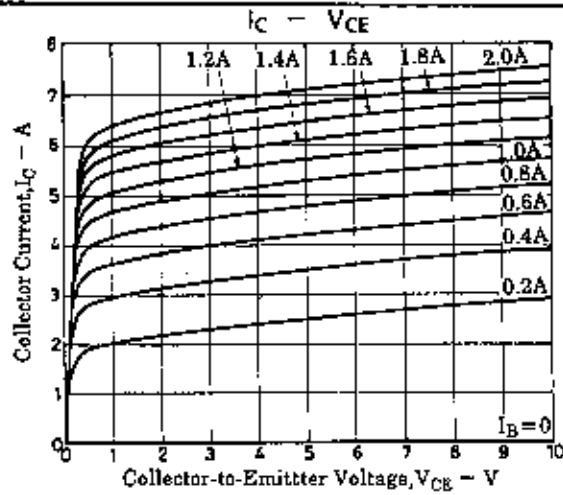
- Pin 1 (Base) diameter: 3.4
- Pin 2 (Collector) diameter: 2.6
- Pin 3 (Emitter) diameter: 2.0
- Pin 1 to Pin 2 distance: 21.0
- Pin 2 to Pin 3 distance: 4.0
- Pin 1 to Pin 3 distance: 21.0

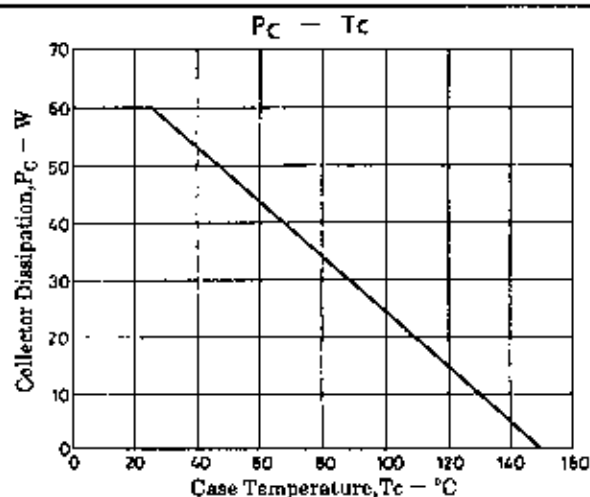
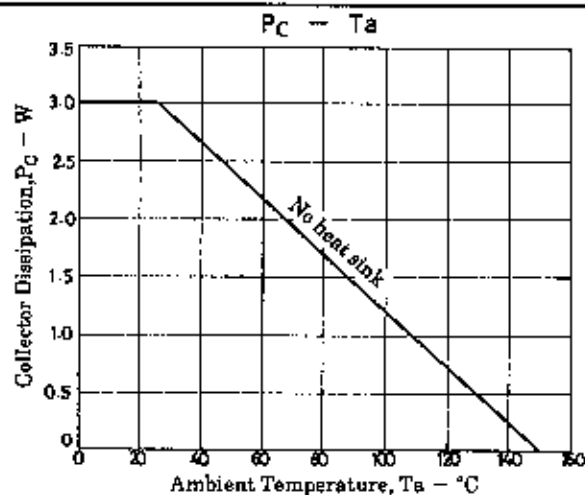
Legend:

- 1: Base
- 2: Collector
- 3: Emitter

Part Number: SANYO · TO3PMT

11696YK (KOTO) TA-0585 No.5290-1/3





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