

2SA1724

High-Definiton CRT Display Video Output Driver Applications

Features

- \cdot High f_T (f_T=1.5GHz typ).
- · High current (I_C=300mA).
- · Adoption of FBET process.

Marking : AJ

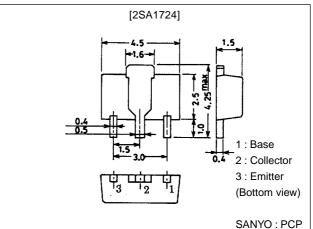
Specifications

Absolute Maximum Ratings at Ta = 25°C

Package Dimensions

unit:mm

2038A

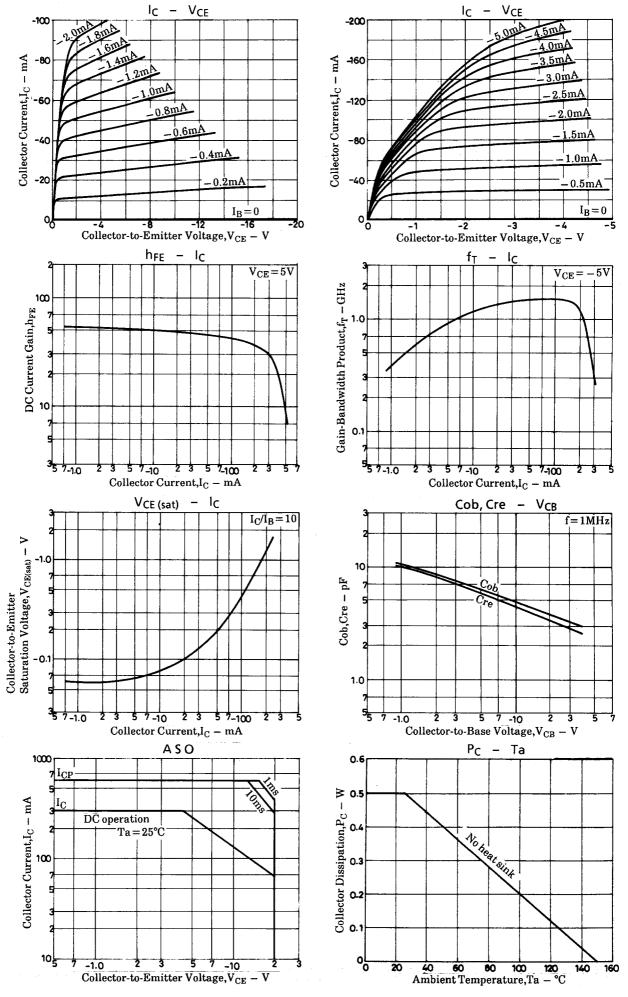


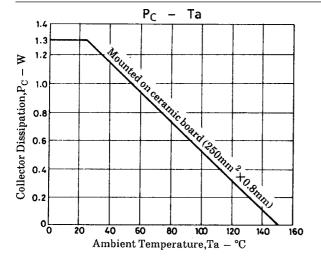
Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		-30	V
Collector-to-Emitter Voltage	VCEO		-20	V
Emitter-to-Base Voltage	V _{EBO}		-3	V
Collector Current	IC		-300	mA
Collector Current (Pulse)	ICP		-600	mA
Collector Dissipation	PC		500	mW
		Mounted on ceremic board (250mm ² ×0.8mm)	1.3	W
Junction Temperature	Tj		150	
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Oill
Collector Cutoff Current	ICBO	V _{CB} =-20V, I _E =0			-0.1	μA
Emitter Cutoff Current	I _{EBO}	V _{EB} =-2V, I _C =0			-1.0	μΑ
DC Current Gain	h _{FE} 1	V _{CE} =-5V, I _C =-50mA	15		100	
	h _{FE} 2	V _{CE} =-5V, I _C =-300mA	5			
Gain-Bandwidth Product	fT	V _{CE} =-5V, I _C =-100mA		1.5		GHz
Output Capacitance	C _{ob}	V _{CB} =-10V, f=1MHz		4.9		pF
Reverse Transfer Capacitance	C _{re}	V _{CB} =-10V, f=1MHz		4.4		pF
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =-100mA, I _B =-10mA		-0.4	-1.0	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =-100mA, I _B =-10mA		-0.9	-1.2	V

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