

No.3159A

2SA1724

PNP Epitaxial Planar Silicon Transistor

High-Definition CRT Display Video Output Driver Applications

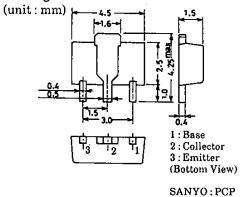
Features

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

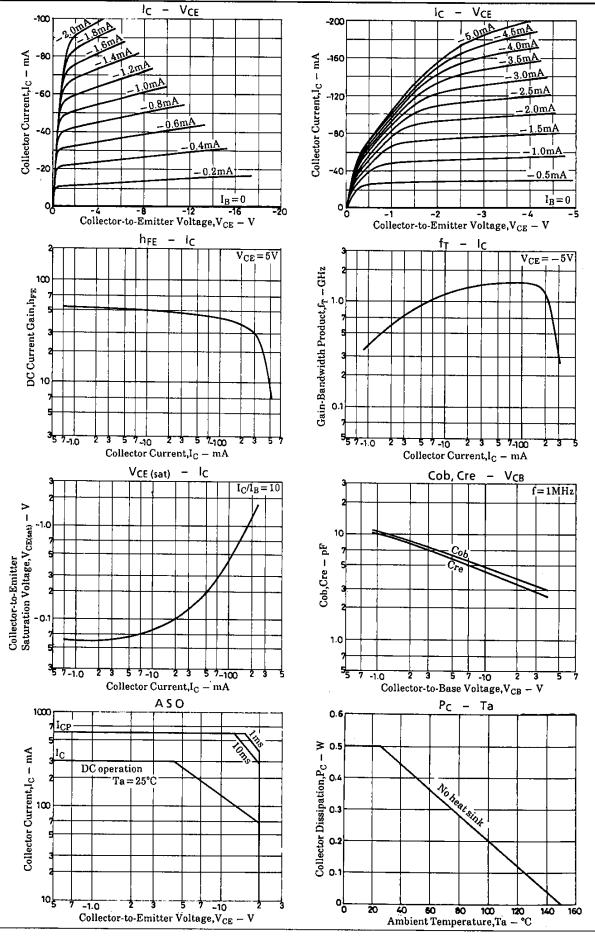
Absolute Maximum Ratings at Ta = 25°C					unit	
Collector-to-Base Voltage	V_{CBO}			-30	v	
Collector-to-Emitter Voltage	VCEO			-20	v	
Emitter-to-Base Voltage	V_{EBO}			-3	V	
Collector Current	$I_{\mathbf{C}}$			-300	mA	
Collector Current(Pulse)	I_{CP}			-600	mA	
Collector Dissipation	PC			500	mW	
-		ed on ceramic board (250mm ² >	(0.8mm)		W	
Junction Temperature	T_{j}	• • • • • • • • • • • • • • • • • • • •	,	150	°C	
Storage Temperature	Tstg		– 55 to		°Č	
Electrical Characteristics at Ta = 25°C min typ						:4
Collector Cutoff Current	I _{CBO}	$V_{CB} = -20V_{A}I_{E} = 0$	min	typ	max	unit
Emitter Cutoff Current	IEBO	$V_{EB} = -2V_{AE} = 0$ $V_{EB} = -2V_{AE} = 0$			-0.1	μ A
DC Current Gain		$V_{\rm CE} = -5V, I_{\rm C} = -50 \mathrm{mA}$	1.5		-1.0	μ A
Do our rent dann	$h_{FE}(1)$		15		100	
Gain-Bandwidth Product	$h_{FE}(2)$	$V_{CE} = -5V, I_{C} = -300 \text{mA}$	5			077
	$\mathbf{f_T}$	$V_{CE} = -5V, I_{C} = -100 \text{mA}$		1.5		GHz
Output Capacitance	Cob	$V_{CB} = -10V$, $f = 1MHz$		4.9		\mathbf{pF}
Reverse Transfer Capacitance		$V_{CB} = -10V$, $f = 1MHz$		4.4		рF
C-E Saturation Voltage	$V_{\mathrm{CE}(\mathrm{sat})}$	$I_C = -100 \text{mA}, I_B = -10 \text{mA}$		-0.4	-1.0	V
B-E Saturation Voltage	$V_{BE(sat)}$	$I_C = -100 \text{mA}, I_B = -10 \text{mA}$		-0.9	-1.2	V

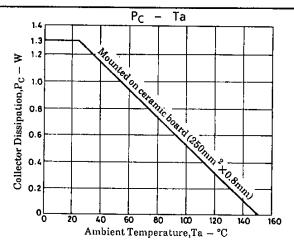
Marking: AJ

Package Dimensions 2038A



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