Power Transistors

Panasonic

2SA2064

Silicon PNP epitaxial planar type

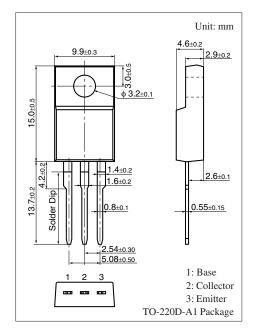
Power supply for audio & visual equipments such as TVs and VCRs Industrial equipments such as DC-DC converters

Features

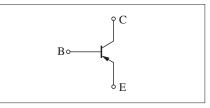
- High speed switching (t_{stg} : storage time/ t_f : fall time is short)
- \bullet Low collector-emitter saturation voltage $V_{\mbox{CE(sat)}}$
- \bullet Superior forward current transfer ratio $h_{F\!E}$ linearity
- TO-220D built-in: Excellent package with withstand voltage 5 kV guaranteed

3 ² C ² ²								
Symbol	Rating	Unit						
V _{CBO}	-50	V						
V _{CEO}	-50	V						
V _{EBO}	-6	V						
I _C	-10	А						
I _{CP}	-20	А						
P _C	25	W						
	2.0							
Tj	150	°C						
T _{stg}	-55 to +150	°C						
	V _{CBO} V _{CEO} V _{EBO} I _C P _C T _j	$\begin{array}{c c c c c c c c } \hline V_{CBO} & -50 \\ \hline V_{CEO} & -50 \\ \hline V_{CEO} & -50 \\ \hline V_{EBO} & -6 \\ \hline I_C & -10 \\ \hline I_C & -10 \\ \hline I_C & -20 \\ \hline P_C & 25 \\ \hline 2.0 \\ \hline T_j & 150 \\ \hline \end{array}$						

Absolute Maximum Ratings $T_C = 25^{\circ}C$



Internal Connection

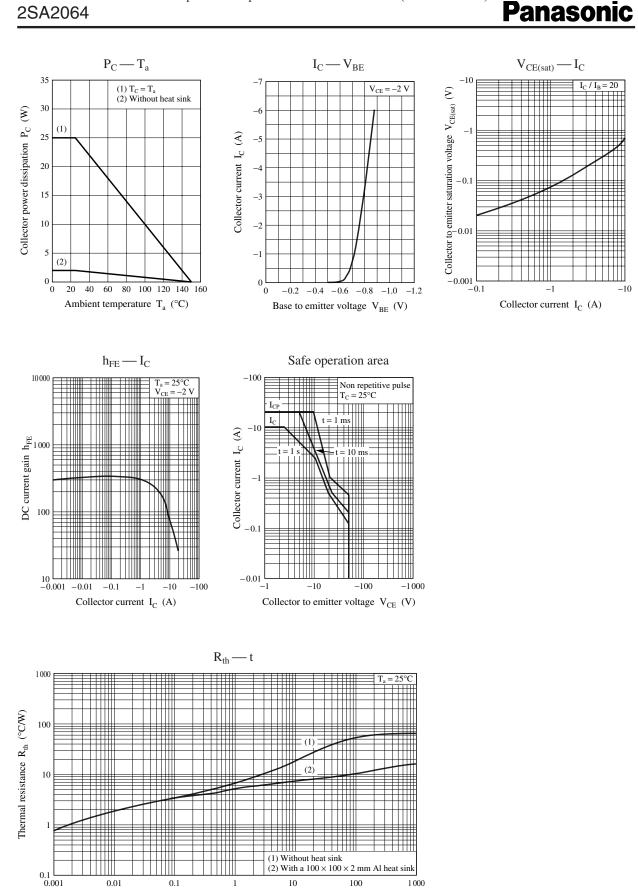


Electrical Characteristics $T_C = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = 0$	-50			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -50 \text{ V}, I_E = 0$			-100	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -50 \text{ V}, I_B = 0$			-100	μΑ
Forward current transfer ratio	h _{FE1}	$V_{CE} = -2 V, I_C = -1 A$	200			—
	h _{FE2}	$V_{CE} = -2 V, I_C = -7 A$	100			
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -5 \text{ A}, I_{\rm B} = -250 \text{ mA}$			- 0.5	V
Turn-on time	t _{on}	$I_{\rm C} = -4$ A, Resistance loaded			0.5	μs
Storage time	t _{stg}	$I_{B1} = -0.4 \text{ A}, I_{B2} = 0.4 \text{ A}$			1.0	μs
Fall time	t _f	$V_{CC} = -40 \text{ V}$			0.15	μs

Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2SA2064



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Time t (s)

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