Power Transistors

Panasonic

2SA2064

Silicon PNP epitaxial planar type

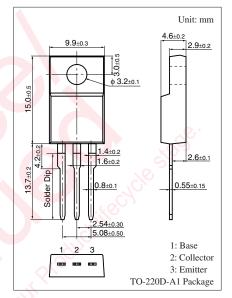
Power supply for audio & visual equipments such as TVs and VCRs Industrial equipments such as DC-DC converters

Features

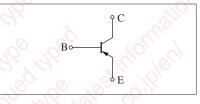
- High speed switching (t_{stg}: storage time/t_f: fall time is short)
- \bullet Low collector-emitter saturation voltage $V_{CE(sat)}$
- Superior forward current transfer ratio h_{FE} linearity
- TO-220D built-in: Excellent package with withstand voltage 5 kV guaranteed

Absolute Maximum Hatings $1^\circ_{\rm C} = 23^\circ_{\rm C}$								
Parameter	Symbol	Rating	Unit					
Collector-base voltage (Emitter open)	V _{CBO}	-50	V					
Collector-emitter voltage (Base open)	V _{CEO}	-50	V					
Emitter-base voltage (Collector open)	V _{EBO}	-6	v					
Collector current	I _C	-10	А					
Peak collector current	I _{CP}	-20	A					
Collector power dissipation	P _C	25	< W					
$T_a = 25^{\circ}C$		2.0	5 .0					
Junction temperature	Tj	150	°C					
Storage temperature	T _{stg}	-55 to +150	°C					

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



Internal Connection

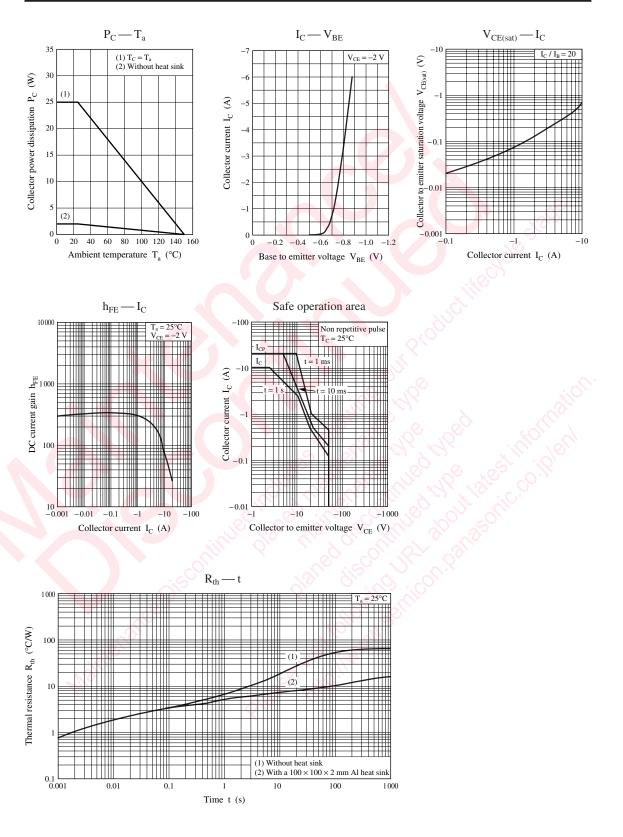


Electrical Characteristics $T_C = 25^{\circ}C \pm 3^{\circ}C$

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)}	$I_{\rm C} = -5$ A, $I_{\rm B} = -250$ mA			- 0.5	V
Turn-on time	t _{on}	$I_{C} = -4$ 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	$V_{\rm CC} = -40 \text{ V}$			0.15	μs

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

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