

2SD1273, 2SD1273A

Silicon NPN Triple-Diffused Planar Type

High DC Current Gain (h_{FE}), Power Amplifier

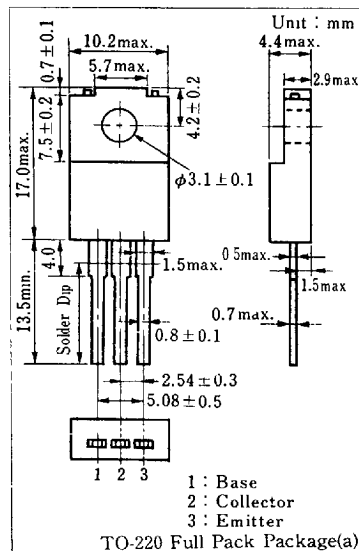
■ Features

- High DC current gain (h_{FE})
- Good linearity of DC current gain (h_{FE})
- "Full Pack" package for simplified mounting on a heat sink with one screw

■ Absolute Maximum Ratings ($T_c=25^\circ\text{C}$)

Item	Symbol	Value	Unit
Collector-base voltage	2SD1273	80	V
	2SD1273A	100	
Collector-emitter voltage	2SD1273	60	V
	2SD1273A	80	
Emitter-base voltage	V_{EB0}	6	V
Peak collector current	I_{CP}	6	A
Collector current	I_C	3	A
Base current	I_B	1	A
Collector power dissipation	$T_c = 25^\circ\text{C}$	40	W
	$T_a = 25^\circ\text{C}$	2	
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	$-55 \sim +150$	$^\circ\text{C}$

■ Package Dimensions



■ Electrical Characteristics ($T_c=25^\circ\text{C}$)

Item	Symbol	Condition	min.	typ.	max.	Unit
Collector cutoff current	2SD1273	$V_{CB} = 80\text{ V}, I_E = 0$			100	μA
	2SD1273A	$V_{CB} = 100\text{ V}, I_E = 0$			100	
Collector cutoff current	I_{CE0}	$V_{CE} = 40\text{ V}, I_B = 0$			100	μA
Emitter cutoff current	I_{EB0}	$V_{EB} = 6\text{ V}, I_C = 0$			100	μA
Collector-emitter voltage	2SD1273	$I_C = 25\text{ mA}, I_B = 0$	60			V
	2SD1273A		80			
DC current gain	h_{FE}^*	$V_{CE} = 4\text{ V}, I_C = 0.5\text{ A}$	500		2500	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 2\text{ A}, I_B = 0.05\text{ A}$			1	V
Transition frequency	f_T	$V_{CE} = 12\text{ V}, I_C = 0.2\text{ A}, f = 10\text{ MHz}$		50		MHz

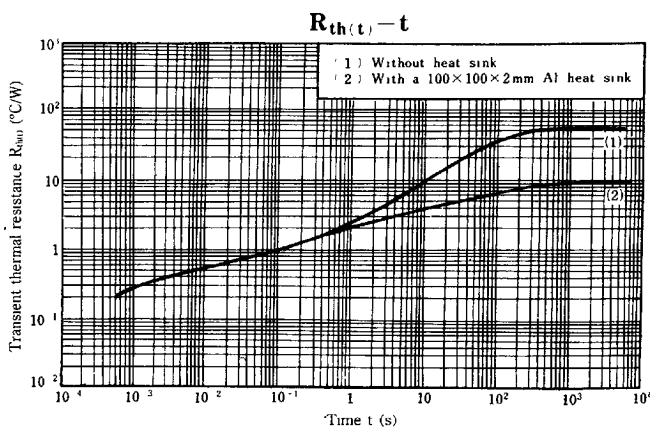
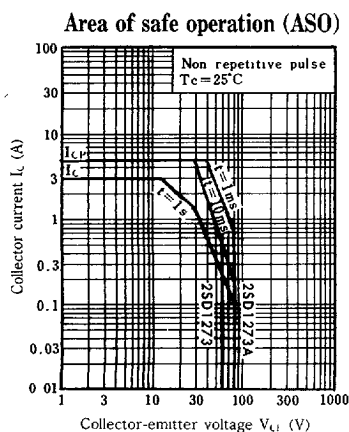
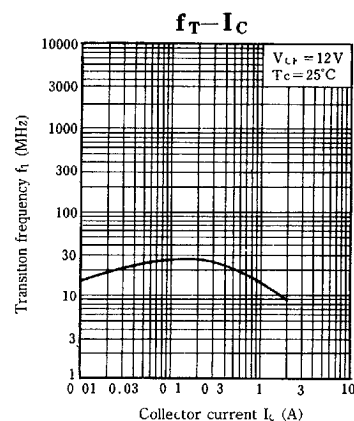
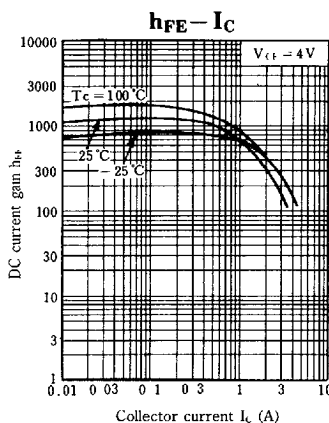
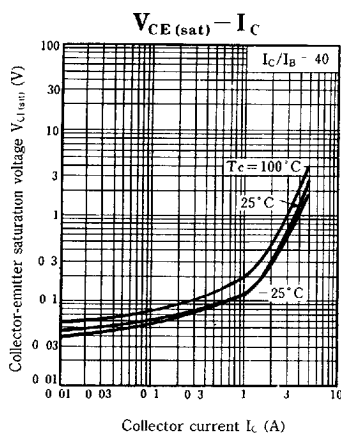
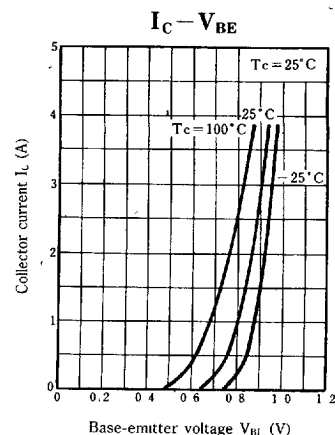
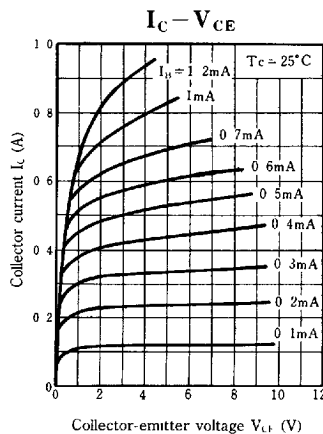
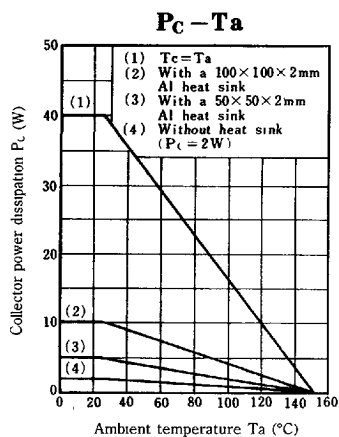
* h_{FE} Classifications

Class	Q	P	O
h_{FE}	500~1000	800~1500	1200~2500

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Power Transistors

2SD1273, 2SD1273A



Panasonic

6932852 0016677 431

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