

2SD1263, 2SD1263A

Silicon NPN Triple-Diffused Planar Type

Power Amplifier

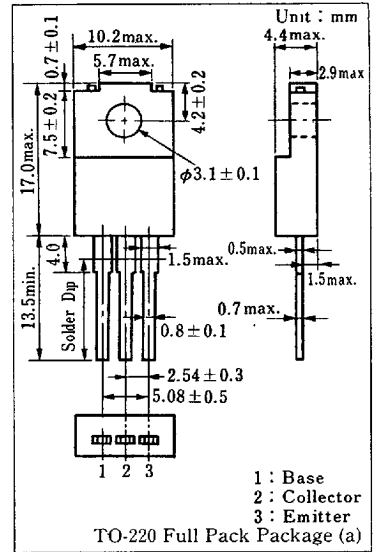
■ Features

- High collector-base voltage (V_{CB0})
- "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	2SD1263	350	V
	2SD1263A	400	
Collector-emitter voltage	2SD1263	250	V
	2SD1263A	300	
Emitter-base voltage	V_{EBO}	5	V
Peak collector current	I_{CP}	1.5	A
Collector current	I_C	0.75	A
Collector power dissipation	$T_c=25^\circ\text{C}$	35	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	2SD1263	$V_{CE}=350\text{ V}, V_{BE}=0$			1	mA
	2SD1263A	$V_{CE}=400\text{ V}, V_{BE}=0$			1	
Collector cutoff current	2SD1263	$V_{CE}=150\text{ V}, I_B=0$			1	mA
	2SD1263A	$V_{CE}=200\text{ V}, I_B=0$			1	
Emitter cutoff current	I_{EBO}	$V_{EB}=5\text{ V}, I_C=0$			1	mA
Collector-emitter voltage	2SD1263	$I_C=30\text{ mA}, I_B=0$	250			V
	2SD1263A		300			
DC current gain	h_{FE1}^*	$V_{CE}=10\text{ V}, I_C=0.3\text{ A}$	40		250	
	h_{FE2}	$V_{CE}=10\text{ V}, I_C=1\text{ A}$	10			
Base-emitter voltage	V_{BE}	$V_{CE}=10\text{ V}, I_C=1\text{ A}$			1.5	V
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=1\text{ A}, I_B=0.2\text{ A}$			1	V
Transition frequency	f_T	$V_{CE}=5\text{ V}, I_C=0.5\text{ A}, f=10\text{ MHz}$		30		MHz
Turn-on time	t_{on}	$I_C=1\text{ A}, I_{B1}=0.1\text{ A}, I_{B2}=-0.1\text{ A}$ $V_{CC}=50\text{ V}$		0.5		$\mu\text{ s}$
Storage time	t_{stg}			2		$\mu\text{ s}$
Fall time	t_f			0.5		$\mu\text{ s}$

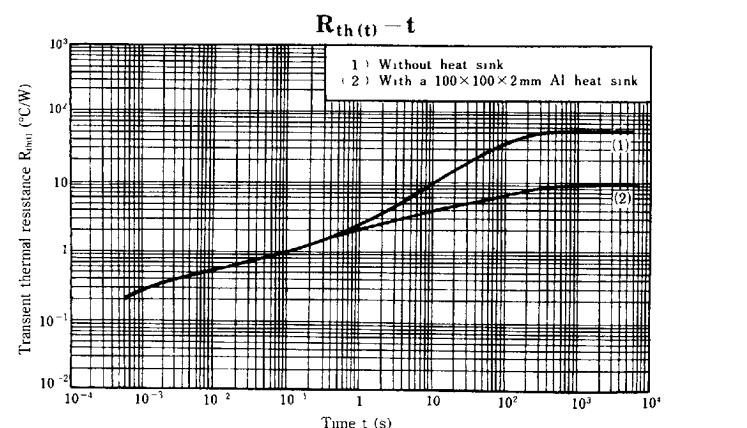
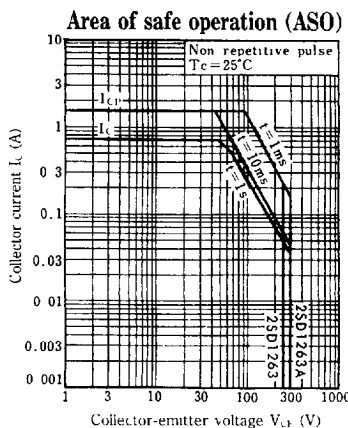
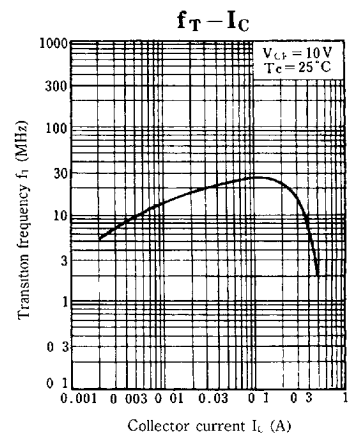
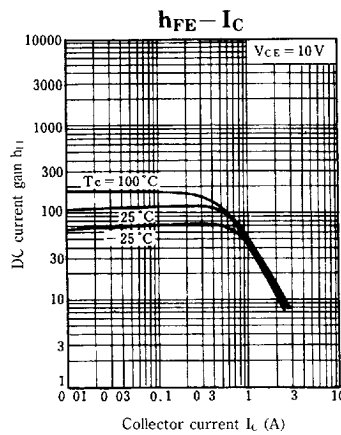
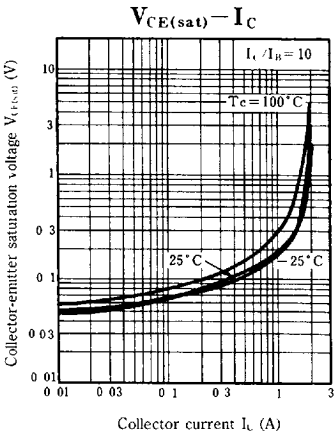
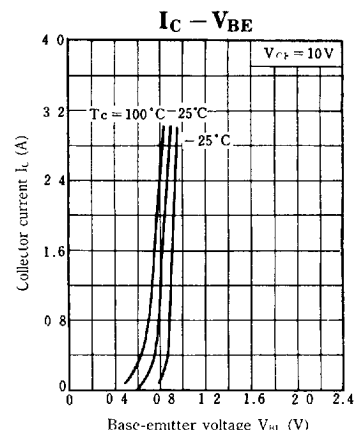
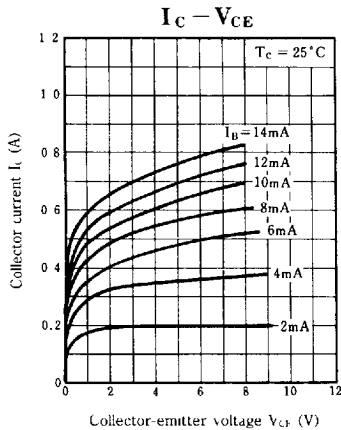
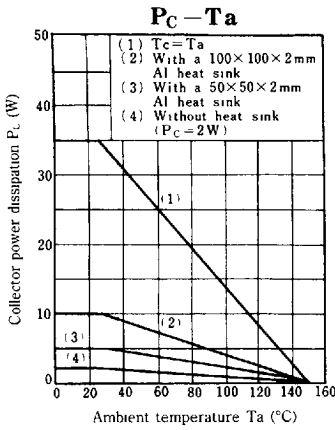
* h_{FE1} Classifications

Class	R	Q	P
h_{FE1}	40~90	70~150	120~250

■ 6932852 0016655 870 ■

Panasonic

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