

2SD1264, 2SD1264A

Silicon NPN Triple-Diffused Planar Type

AF Power Amplifier
TV vertical Deflection Output
Complementary Pair with 2SB940, 2SB940A

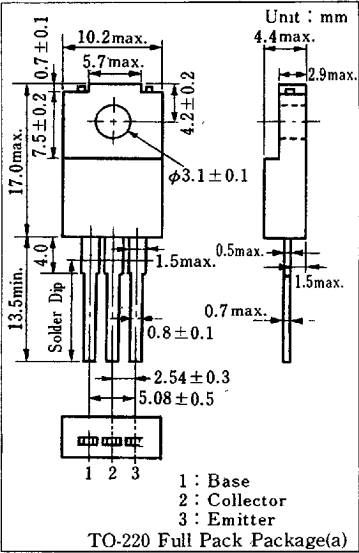
Features

- High collector-emitter voltage (V_{CE0})
- Large collector power dissipation (P_C)
- "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		V_{CB0}	200	V
Collector-emitter voltage	2SD1264	V_{CE0}	150	V
	2SD1264A		180	
Emitter-base voltage		V_{EB0}	6	V
Peak collector current		I_{CP}	3	A
Collector current		I_C	2	A
Collector power dissipation	$T_c=25^{\circ}\text{C}$	P_C	30	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



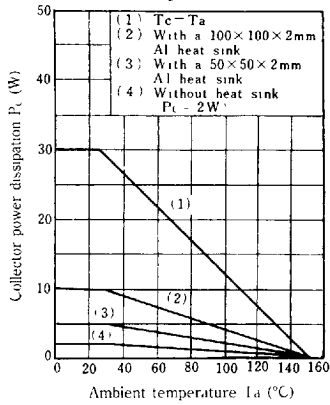
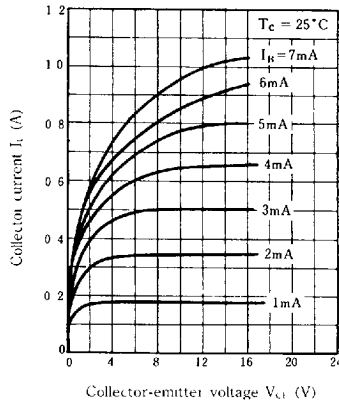
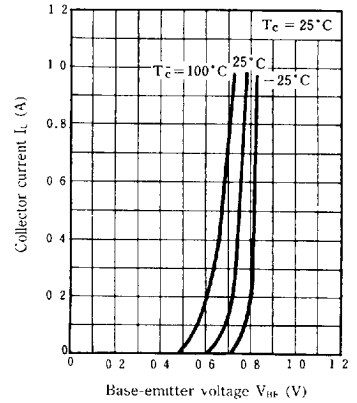
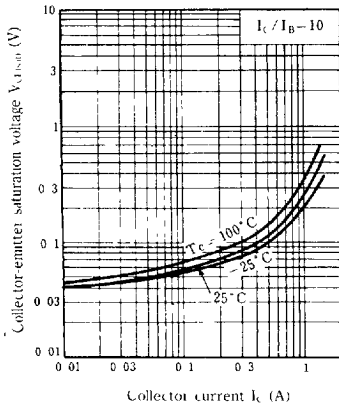
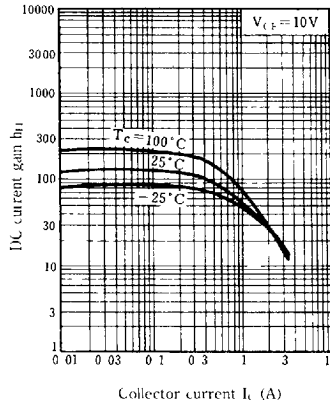
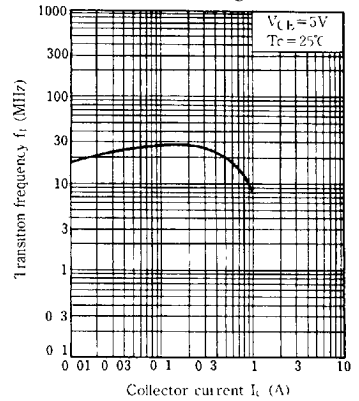
Electrical Characteristics ($T_c=25^{\circ}\text{C}$)

Item		Symbol	Condition	min.	typ.	max.	Unit	
Collector cutoff current		I_{CBO}	$V_{CB}=200\text{ V}, I_E=0$			50	μA	
Emitter cutoff current		I_{EBO}	$V_{EB}=4\text{ V}, I_C=0$			50	μA	
Collector-base voltage		V_{CBO}	$I_C=500\text{ }\mu\text{A}, I_E=0$	200			V	
Collector-emitter voltage	2SD1264	V_{CEO}	$I_C=5\text{ mA}, I_B=5$	150			V	
	2SD1264A		$I_C=5\text{ mA}, I_B=0$	180				
Emitter-base voltage		V_{EBO}	$I_E=500\text{ }\mu\text{A}, I_C=0$	6			V	
DC current gain		h_{FE1}^*	$V_{CE}=10\text{ V}, I_C=150\text{ mA}$	60		240		
		h_{FE2}	$V_{CE}=10\text{ V}, I_C=400\text{ mA}$	50				
Base-emitter voltage		V_{BE}	$V_{CE}=10\text{ V}, I_C=400\text{ mA}$			1	V	
Collector-emitter saturation voltage		$V_{CE(sat)}$	$I_C=500\text{ mA}, I_B=50\text{ mA}$			1	V	
Transition frequency		f_T	$V_{CE}=5\text{ V}, I_C=0.5\text{ A}, f=1\text{ MHz}$		20		MHz	

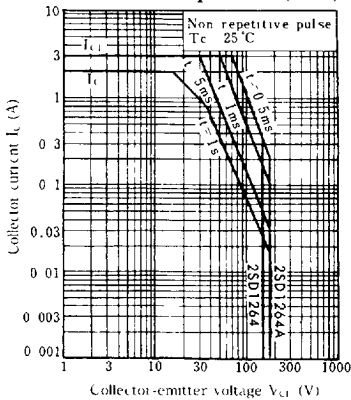
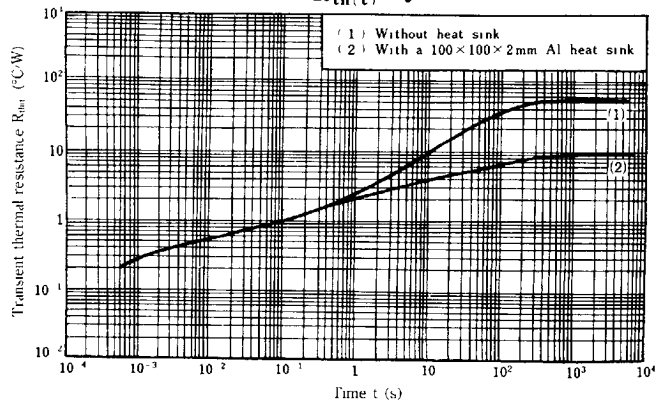
$^*h_{FE1}$ Classifications

Class	Q	P
h_{tE1}	60~140	100~240

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$P_C - T_a$  $I_C - V_{CE}$  $I_C - V_{BE}$  $V_{CE(sat)} - I_C$  $h_{FE} - I_C$  $f_T - I_C$ 

Area of safe operation (ASO)

 $R_{th(t)} - t$ 

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