2SD2276

Silicon NPN triple diffusion planar type Darlington

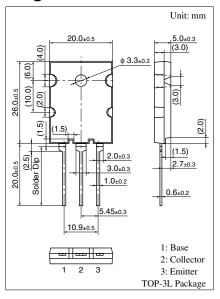
For power amplification Complementary to 2SB1503

■ Features

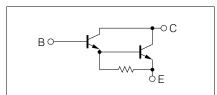
- Optimum for 110 W Hi-Fi output
- \bullet High forward current transfer ratio h_{FE} : 5 000 to 30 000
- \bullet Low collector to emitter saturation voltage $V_{\text{CE(sat)}}\!\!:<\!2.5~\text{V}$

■ Absolute Maximum Ratings $T_C = 25$ °C

V V
V
V
A
A
W
°C
°C



Internal Connection



■ Electrical Characteristics $T_C = 25$ °C

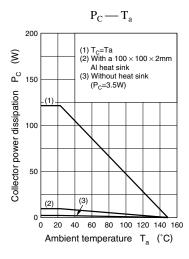
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 160 \text{ V}, I_E = 0$			100	μΑ
	I_{CEO}	$V_{CE} = 140 \text{ V}, I_{B} = 0$			100	μΑ
Emitter cutoff current	I_{EBO}	$V_{EB} = 5 \text{ V}, I_C = 0$			100	μΑ
Collector to emitter voltage	V_{CEO}	$I_C = 30 \text{ mA}, I_B = 0$	140			V
Forward current transfer ratio	h _{FE1}	$V_{CE} = 5 \text{ V}, I_{C} = 1 \text{ A}$	2 000			
	h _{FE2} *	$V_{CE} = 5 \text{ V}, I_{C} = 7 \text{ A}$	5 000		30 000	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = 7 \text{ A}, I_B = 7 \text{ mA}$			2.5	V
Base to emitter saturation voltage	V _{BE(sat)}	$I_{\rm C} = 7 \text{ A}, I_{\rm B} = 7 \text{ mA}$			3.0	V
Transition frequency	f_T	$V_{CE} = 10 \text{ V}, I_{C} = 0.5 \text{ A}, f = 1 \text{ MHz}$		20		MHz
Turn-on time	t _{on}	$I_C = 7 \text{ A}, I_{B1} = 7 \text{ mA}, I_{B2} = -7 \text{ mA},$ 2.0		2.0		μs
Storage time	t _{stg}	$V_{CC} = 50 \text{ V}$		6.0		μs
Fall time	t_{f}			1.2		μs

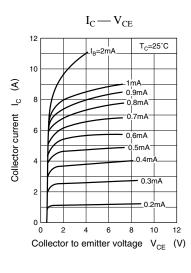
Note) *: Rank classification

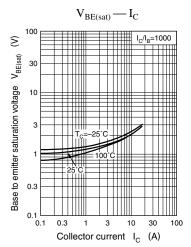
Rank	Q	S	Р
h_{FE2}	5 000 to 15 000	7 000 to 21 000	8 000 to 30 000

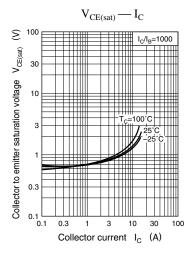
Panasonic 1

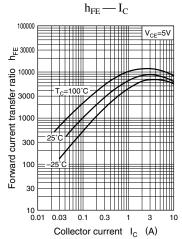
2SD2276 Power Transistors

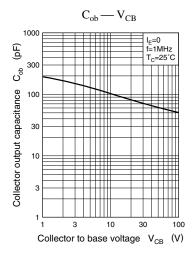


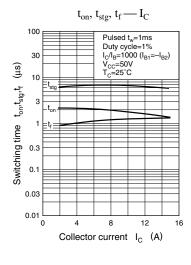


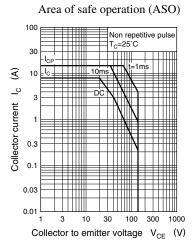






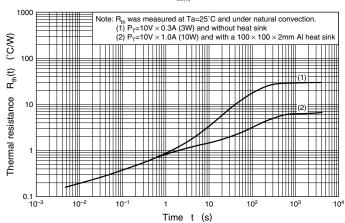






Power Transistors 2SD2276





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