2SD2504

Silicon NPN epitaxial planer type

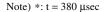
For low-frequency power amplification

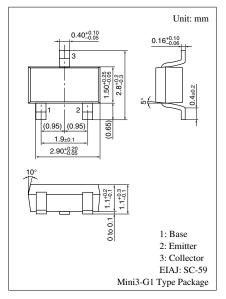
■ Features

- ullet Low collector to emitter saturation voltage $V_{CE(sat)}$
- Mini3-G1 type package, allowing downsizing and thinning of the equipment and automatic insertion through the tape packing

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit
Collector to base voltage	V_{CBO}	15	V
Collector to emitter voltage	V _{CEO}	10	V
Emitter to base voltage	V _{EBO}	10	V
Peak collector current	I_{CP}	9	A
Collector current	I_{C}	5	A
Collector power dissipation *	P_{C}	750	mW
Junction temperature	Tj	150	°C
Storage temperature	T_{stg}	-55 to +150	°C





Marking Symbol: 3C

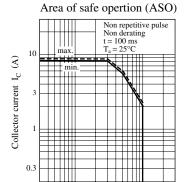
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 10 \text{ V}, I_E = 0$			0.1	μΑ
	I _{CEO}	$V_{CE} = 5 \text{ V}, I_{B} = 0$			1.0	μΑ
Emitter cutoff current	I _{EBO}	$V_{EB} = 5 \text{ V}, I_{C} = 0$			0.1	μΑ
Collector to emitter voltage	V _{CEO}	$I_C = 1 \text{ mA}, I_B = 0$	10			V
Emitter to base voltage	V _{EBO}	$I_E = 10 \ \mu A, I_C = 0$	10			V
Forward current transfer ratio *	h _{FE1}	$V_{CE} = 2 \text{ V}, I_{C} = 0.5 \text{ A}$	300		800	
	h _{FE2}	$V_{CE} = 2 \text{ V}, I_{C} = 2 \text{ A}$	195			
Collector to emitter saturation voltage *	V _{CE(sat)}	$I_C = 3 \text{ A}, I_B = 0.1 \text{ A}$		0.28	0.5	V
Collector output capacitance	C _{ob}	$V_{CB} = 20 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		45	65	pF
Transition frequency	f_T	$V_{CB} = 6 \text{ V}, I_{E} = -50 \text{ mA}, f = 200 \text{ MHz}$		170		MHz

Note) *: Pulse measurement

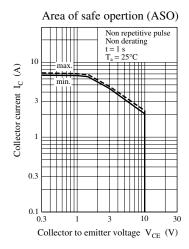
Panasonic

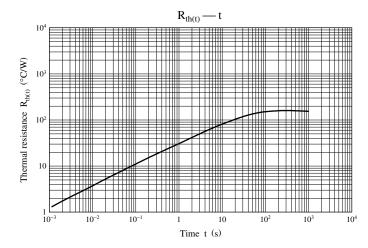
2SD2504 Transistors



Collector to emitter voltage V_{CE} (V)

0.1





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