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2SD2504

Silicon NPN epitaxial planer type

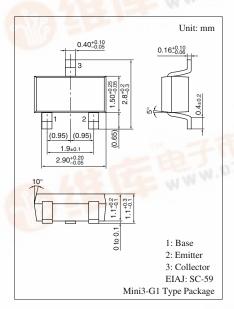
For low-frequency power amplification

Features

- 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 Hatings $T_a = 25$ 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	А		
Collector current	I _C	5	А		
Collector power dissipation *	P _C	750	mW		
Junction temperature	Tj	150	°C		
Storage temperature	T _{stg}	-55 to +150	°C		

■ Absolute Maximum Batings T = 25°C



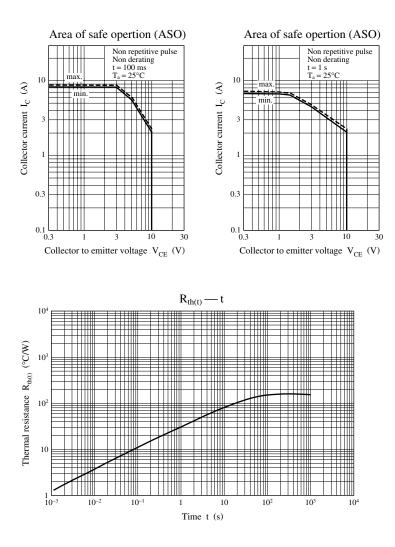
Marking Symbol: 3C

Note) *: t = 380 µsec

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}	$V_{CE} = 5 V, I_B = 0$			1.0	μA
Emitter cutoff current	I _{EBO}	$V_{EB} = 5 V, I_C = 0$			0.1	μA
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = 1 \text{ mA}, I_{\rm B} = 0$	10	10		v
Emitter to base voltage	V _{EBO}	$I_{\rm E} = 10 \ \mu A, I_{\rm C} = 0$	10			V
Forward current transfer ratio *	h _{FE1}	$V_{CE} = 2 V, I_C = 0.5 A$	300		800	
-	h _{FE2}	$V_{CE} = 2 V, I_C = 2 A$	195			
Collector to emitter saturation voltage*	V _{CE(sat)}	$I_{\rm C} = 3 \text{ A}, I_{\rm B} = 0.1 \text{ A}$		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





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