.....2SC4417

Silicon NPN epitaxial planar type

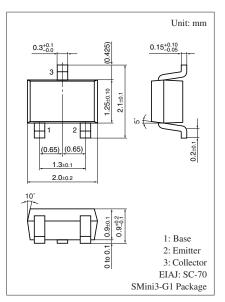
For intermediate frequency amplification of TV image

Features

- \bullet High transition frequency f_{T}
- \bullet Satisfactory linearity of forward current transfer ratio h_{FE}
- S-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing

Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	45	V	
Collector-emitter voltage (Base open)	V _{CEO}	35	V	
Emitter-base voltage (Collector open)	V _{EBO}	4	V	
Collector current	I _C	50	mA	
Collector power dissipation	P _C	150	mW	
Junction temperature	Tj	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	



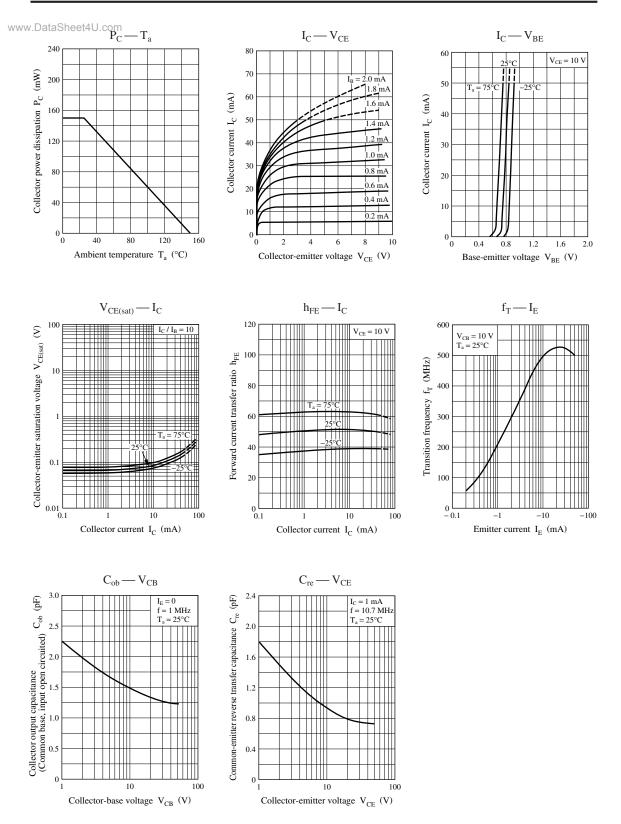
Marking Symbol: 2Z

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{C} = 10 \ \mu A, I_{E} = 0$	45			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = 1 {\rm mA}, I_{\rm B} = 0$	35			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_E = 10 \ \mu A, I_C = 0$	4			V
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = 20 \text{ V}, I_B = 0$			10	μΑ
Forward current transfer ratio	h _{FE}	$V_{CE} = 10 \text{ V}, I_C = 10 \text{ mA}$	20		100	
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 20 \text{ mA}, I_{\rm B} = 2 \text{ mA}$			0.5	V
Transition frequency *	f _T	$V_{CB} = 10 \text{ V}, I_E = -10 \text{ mA}, f = 200 \text{ MHz}$		500		MHz
Common-emitter reverse transfer	C _{re}	$V_{CB} = 10 \text{ V}, I_E = -1 \text{ mA}, f = 10.7 \text{ MHz}$			1.5	pF
capacitance						

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors. 2. *: Pulse measurement

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