UNR51A0G

Silicon PNP epitaxial planar type

For digital circuits

Features

Collector current

Total power dissipation

Junction temperature Storage temperature

- Costs can be reduced through downsizing of the equipment and reduction of the number of parts.
- · SMini type package allowing easy aut

	-			• Code SMini3-F2				
Sizing of the equipment and reduction of tomatic insertion through tape packing $C_a = 25^{\circ}C$ Symbol Rating Unit V _{CBO} -50 V V _{CEO} -50 V I _C -80 mA P _T 150 °C				• Pin Name 1: Base 2: Emitter				
a	= 25°C			3: Collector				
	Symbol	Rating	Unit					
	V _{CBO}	-50	V	Marking Symbol: CD				
	V _{CEO}	-50	V	■ Internal Connection				
	I _C	-80	mA					
	P _T	150	mW	$R_1 (47 \text{ k}\Omega)$				
	Tj	150	°C	₿⊶₩₩₩₩				
	T	-55 to ± 150	°C					

Package

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E

Absolute Maximum Ratings T

Parameter

Collector-base voltage (Emitter open) Collector-emitter voltage (Base open)

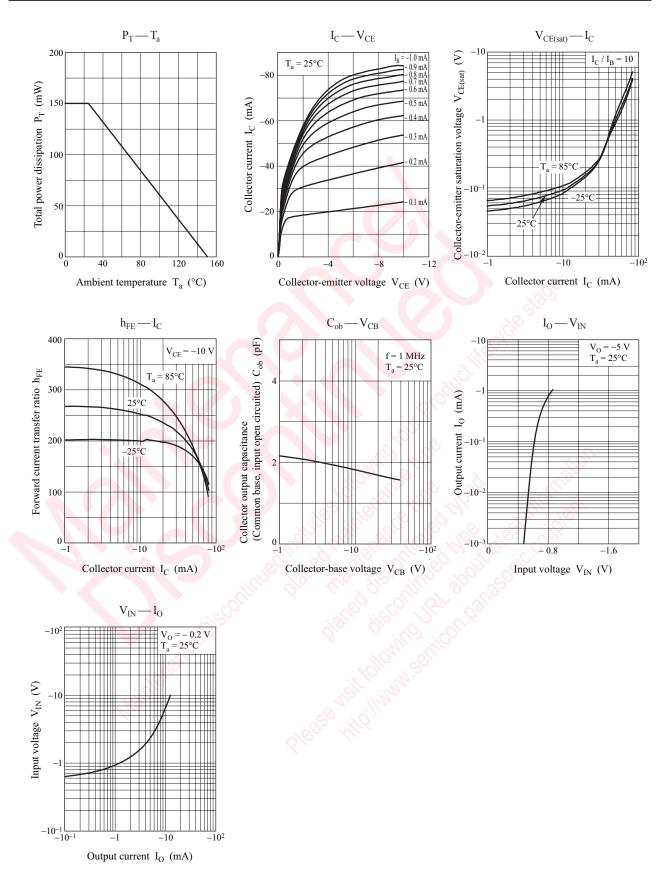
Electrical Characteristics T _a	$= 25^{\circ}C \pm 3^{\circ}C$
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Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \mu {\rm A}, I_{\rm E} = 0$	-50	Ser.		V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-50			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -50 \text{ V}, I_E = 0$	\dot{S}_{0}		- 0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -50 \text{ V}, I_B = 0$			- 0.5	μΑ
Emitter-base cutoff current (Collector open)	I_{EBO}	$V_{\rm EB} = -6 \text{ V}, I_{\rm C} = 0$			- 0.01	mA
Forward current transfer ratio	h _{FE}	$V_{\rm CE} = -10 \text{ V}, I_{\rm C} = -5 \text{ mA}$	160		460	
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = -0.3 \text{ mA}$			- 0.25	V
Output voltage high-level	V _{OH}	$V_{CC} = -5 V, V_B = -0.5 V, R_L = 1 k\Omega$	-4.9			V
Output voltage low-level	V _{OL}	$V_{CC} = -5 \text{ V}, V_{B} = -2.5 \text{ V}, R_{L} = 1 \text{ k}\Omega$			- 0.2	V
Input resistance	R ₁		-30%	47	+30%	kΩ
Transition frequency	f_T	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 200 \text{ MHz}$		80		MHz

Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

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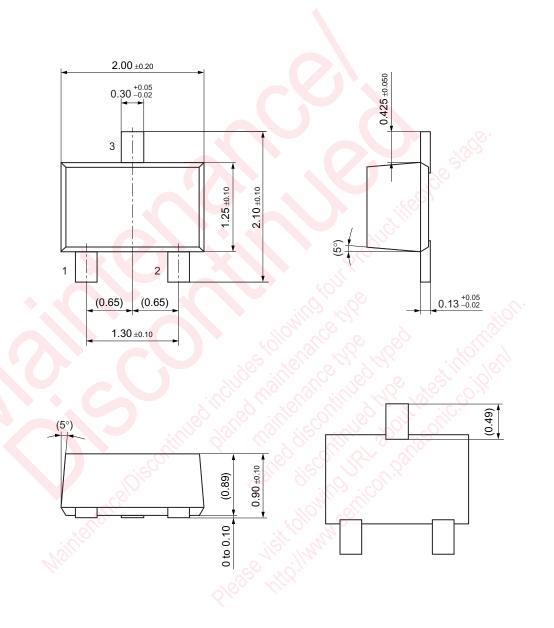
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SMini3-F2

Unit: mm



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