Panasonic

UNR32A6G

Silicon NPN epitaxial planar type

For digital circuits

Features

- Suitable for high-density mounting and downsizing of the equipment
- Contribute to low power consumption

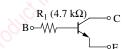
Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V _{CBO}	50	v
Collector-emitter voltage (Base open)	V _{CEO}	50	V
Collector current	I _C	80	mA
Total power dissipation	P _T	100	mW
Junction temperature	Тј	125	°C
Storage temperature	T _{stg}	-55 to +125	°C

Package

- Code
 SSSMini3-F2
- Marking Symbol: HD
- Pin Name
 - 1: Base
 - 2: Emitter
 - 3: Collector

Internal Connection

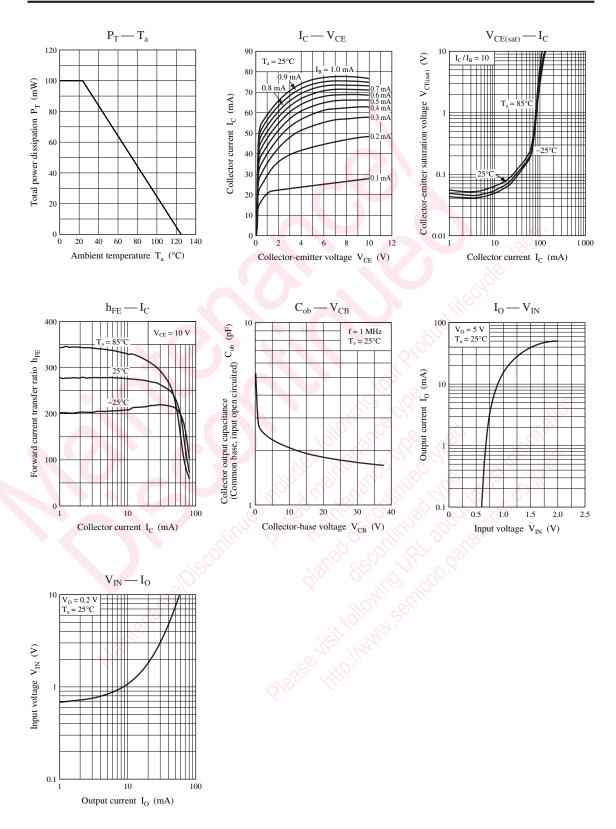


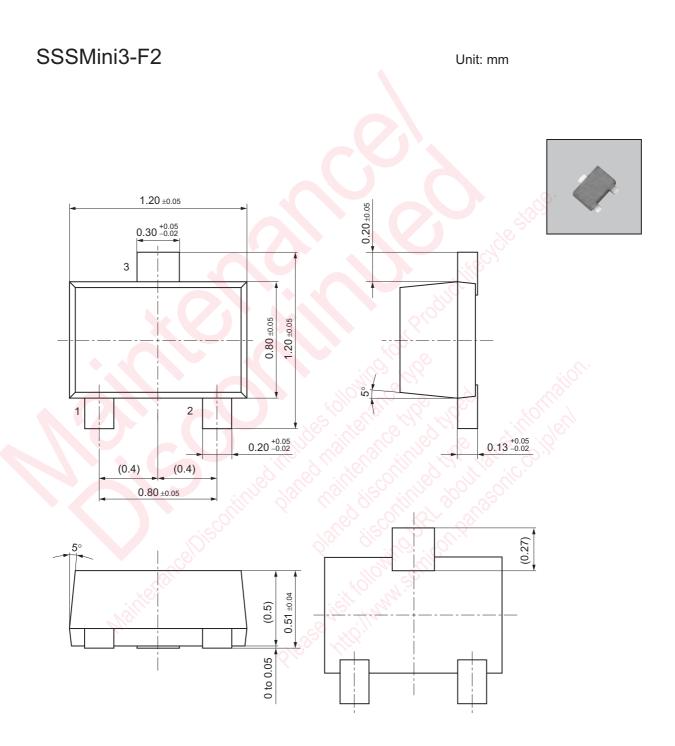
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 10 \ \mu A, I_{\rm E} = 0$	50			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}	$V_{CB} = 50 \text{ V}, I_E = 0$			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}	$V_{EB} = 6 V, I_C = 0$			0.01	mA
Forward current transfer ratio	h _{FE}	$V_{CE} = 10 \text{ V}, \text{ I}_{C} = 5 \text{ mA}$	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}	$V_{CC} = 5 \text{ V}, \text{ V}_{B} = 0.5 \text{ V}, \text{ R}_{L} = 1 \text{ k}\Omega$	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%	4.7	+30%	kΩ
Transition frequency	f _T	$V_{CB} = 10 \text{ V}, I_E = -2 \text{ mA}, f = 200 \text{ MHz}$		150		MHz

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

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