imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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UNR52A6G

Silicon NPN epitaxial planar type

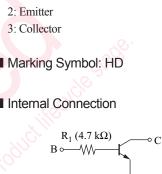
For digital circuits

Features

- Costs can be reduced through downsizing of the equipment and reduction of the number of parts.
- SMini type package allowit

the number of parts.SMini type package allowing easy auto	matic inserti	on through tape	e packing	SMini3-F2 • Pin Name
Absolute Maximum Ratings T _a	= 25°C			1: Base 2: Emitter 3: Collector
Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	50	v	 Marking S
Collector-emitter voltage (Base open)	V _{CEO}	50	V	- ■ Internal C
Collector current	I _C	80	mA	
Total power dissipation	P _T	150	mW	
Junction temperature	Tj	150	°C	Be
Storage temperature	T _{sto}	-55 to +150	°C	

Absolute Maximum F



οF

Package

Code

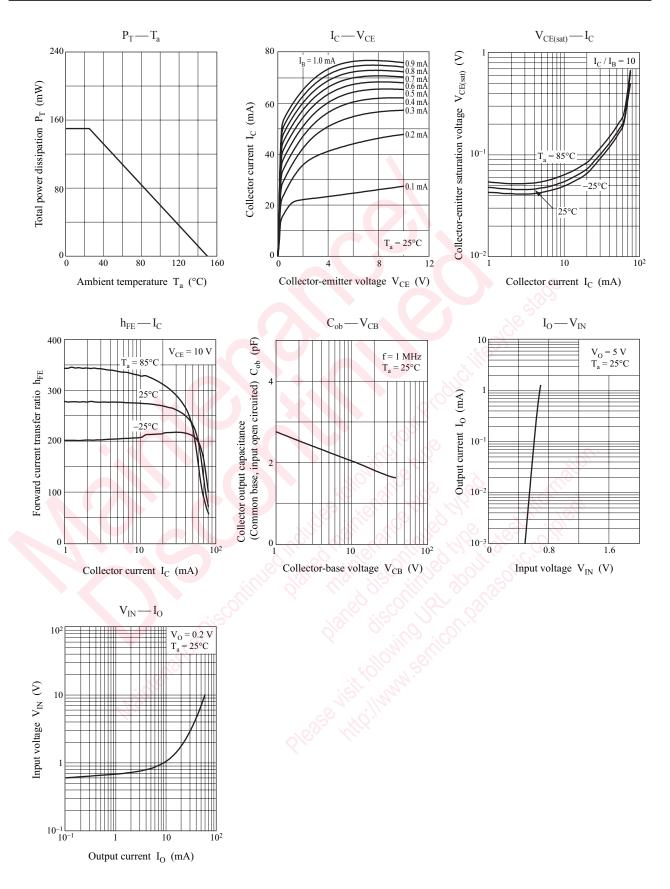
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 10 \ \mu {\rm A}, I_{\rm E} = 0$	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}	$V_{\rm EB} = 6 \text{ V}, I_{\rm C} = 0$			0.01	mA
Forward current transfer ratio	h _{FE}	$V_{CE} = 10 \text{ V}, I_C = 5 \text{ mA}$	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}	$V_{CC} = 5 \text{ V}, V_{B} = 0.5 \text{ V}, R_{L} = 1 \text{ k}\Omega$	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

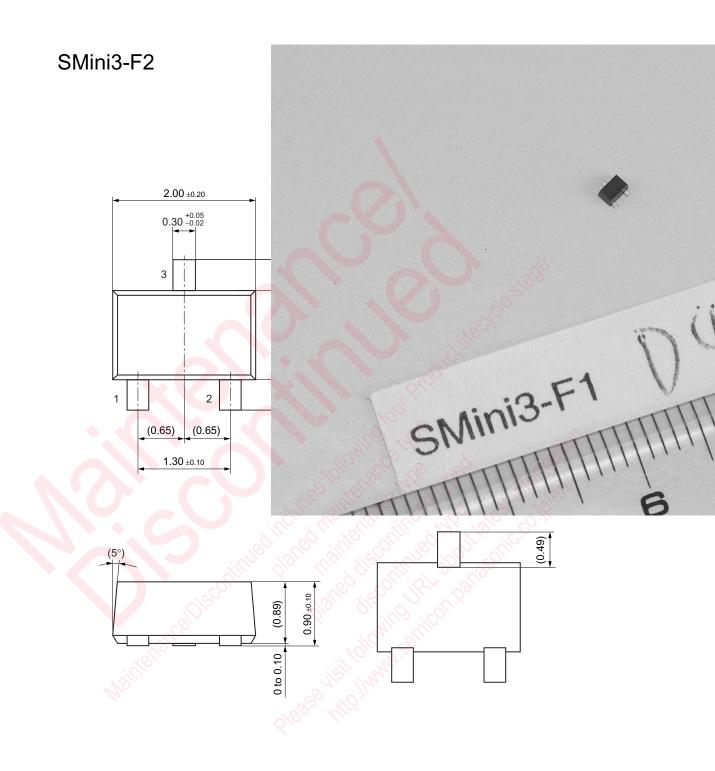
Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

UNR52A6G

Panasonic



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