UNR92AAG

Silicon NPN epitaxial planar type

For digital circuits

■ Features

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

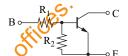
■ Absolute Maximum Ratings $T_a = 25$ °C

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	125	mW	
Junction temperature	T _j	125	°C	
Storage temperature	T _{stg}	-55 to +125	Sicon	

Package

- Code
- SSMini3-F3
- Pin Name
 - 1: Base
 - 2: Emitter
 - 3: Collector

■ Marking Symbol: HL

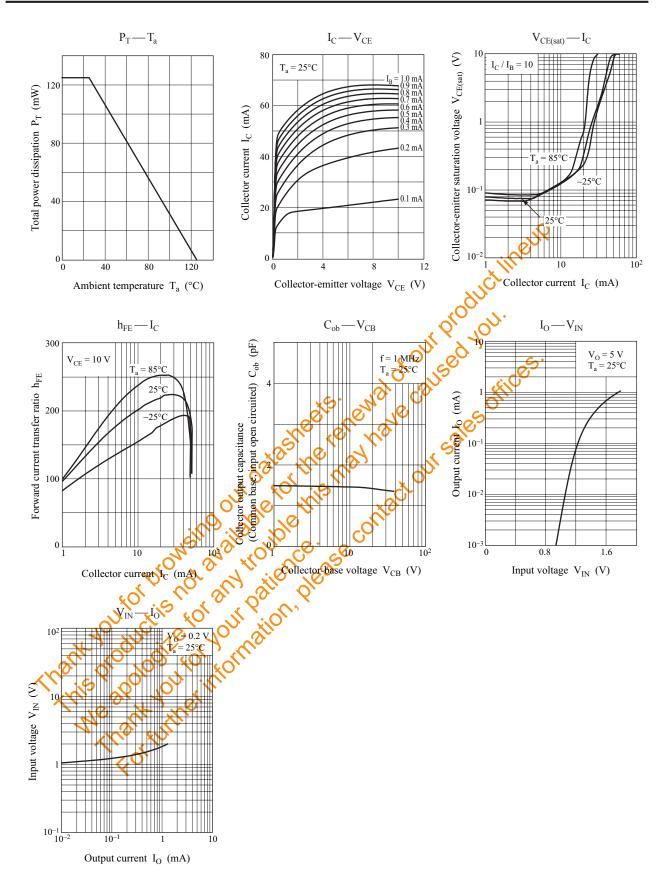


■ Electrical Characteristics

Absolute Maximum Ratings $I_a = 25^{\circ}C$				2: Emitter				
Parameter	Symbol	Rating	Unit 3: C	Init 3: Collector				
Collector-base voltage (Emitter open)	V_{CBO}	50	V Ma	■ Marking Symbol: HL				
Collector-emitter voltage (Base open)	V_{CEO}	50	V	iking Syl	•	-		
Collector current	I_{C}	80	V mA Inte	ernal Con	nection			
Total power dissipation	P_{T}	125	mW KO	SO T	R _b S.	.∕—° C		
Junction temperature	T _j	125	°C O O	B ⊶	W -			
Storage temperature	T _{stg}	-55 to +125	12.00 May 100	(0)	K ₂ €	• E		
- Flatin Chantai You	ayailax	olible	V mA mW °C Note that the contract of the contr					
■ Electrical Characteristics T _a = 28	Symb		Conditions	Min	Тур	Max	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	$Q = 10 \mu$	$A, I_E = 0$	50	71		V	
Collector-emitter voltage (Base open)	VCEO	$I_C = 2 \text{ mA}$	$I_{B} = 0$	50			V	
Collector-base cutoff current Emitter ope	n) C _{CBO}	$V_{\rm CB} = 50$	$V, I_E = 0$			0.1	μΑ	
Collector-emitter cutoff current (Base ope	en) I _{CEO}	$V_{CE} = 50$	$V, I_{B} = 0$			0.5	μΑ	
Emitter-base cutoff current (Collector oper	n) I _{EBO}	$V_{EB} = 6 \text{ V}, I_C = 0$				0.1	mA	
Forward current transfer ratio	h_{FE}	$V_{CE} = 10^{\circ}$	$V_{CE} = 10 \text{ V}, I_{C} = 5 \text{ mA}$				_	
Collector-emitter saturation Voltage	V _{CE(sa}	$I_{\rm C} = 10 \text{ m}.$	$I_C = 10 \text{ mA}, I_B = 0.3 \text{ mA}$			0.25	V	
Output voltage high-level	V _{OH}	$V_{\rm CC} = 5 \text{ V}$	$V_{\rm A}$, $V_{\rm B}$ = 0.5 V, $R_{\rm L}$ = 1 k Ω	4.9			V	
Output voltage low-level	V _{OL}	$V_{\rm CC} = 5 \text{ V}$	V , $V_B = 5 V$, $R_L = 1 k\Omega$			0.2	V	
Input resistance	R_1			-30%	100	+30%	kΩ	
Resistance ratio	R_1/R	2		0.8	1.0	1.2	_	
Transition frequency	f_{T}	W - 10	$V, I_E = -2 \text{ mA}, f = 200 \text{ MHz}$	1	150			

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

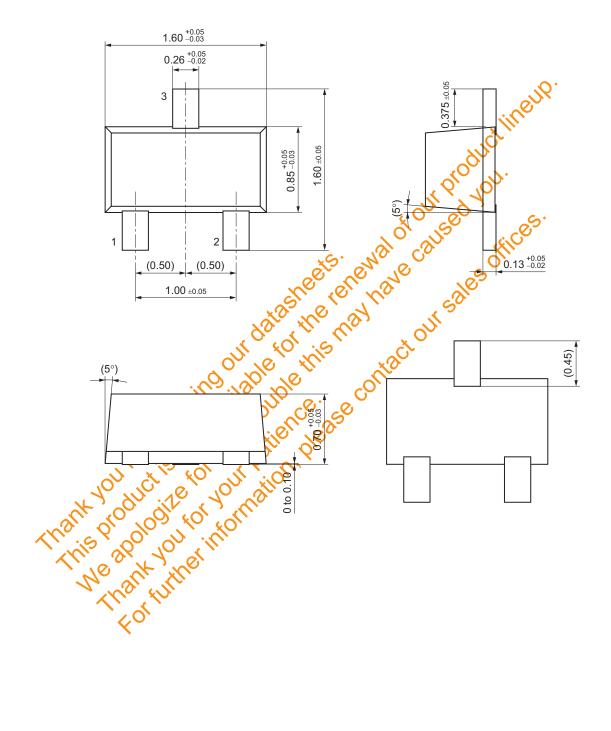
UNR92AAG Panasonic



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Panasonic UNR92AAG

SSMini3-F3 Unit: mm



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