RT3N66U

 $\begin{array}{c} {\bf Composite\ Transistor\ With\ Resistor} \\ {\bf For\ Switching\ Application} \\ {\bf Silicon\ Epitaxial\ Type} \end{array}$

DESCRIPTION

RT3N66U is a composite transistor built with two RT1N430 in USM6F package.

FEATURE

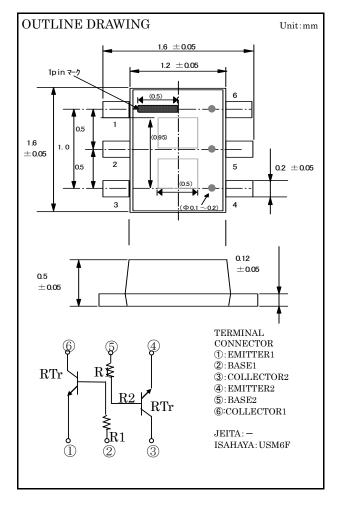
Silicon epitaxial type

Each transistor elements are independent.

Mini package for easy mounting

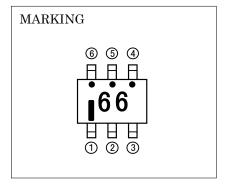
APPLICATION

Inverted circuit, switching circuit, interface circuit, driver circuit



MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING	UNIT
Vcbo	Collector to Base voltage	50	V
VEBO	Emitter to Base voltage	6	V
$V_{\rm CEO}$	Collector to Emitter voltage	50	V
Ic	Collector current	100	mA
ICM	Peak Collector current	200	mA
Pc	Collector dissipation (Total, Ta=25°C)	125	mW
Tj	Junction temperature	+150	°C
T_{stg}	Storage temperature	-55~+150	°C

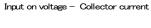


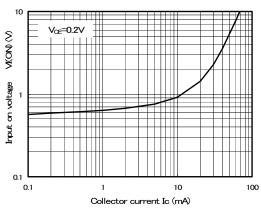
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ELECTRICAL CHARACTERISTICS (Ta=25°C) (Tr1,Tr2 common)

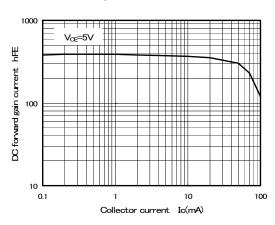
Symbol	Parameter	Test conditions	Limits			Unit
			Min	Тур	Max	Unit
V(BR)CEO	Collector to Emitter break down voltage	$I_{\rm C}=100\mu{\rm A,R_{BE}}=\infty$	50	-	-	V
Ісво	Collector cut off current	V _{CB} =50V,I _E =0	-	-	0.1	μΑ
h_{FE}	DC forward current gain	V _{CE} =5V,I _C =1mA	100	-	-	-
VCE(sat)	Collector to Emitter saturation voltage	Ic=10mA,I _B =0. 5mA	-	0.1	0.3	V
R ₁	Input resistor		3.3	4.7	6.1	kΩ
fT	Gain band width product	Vce=6V,Ie=-10mA	-	200	-	MHz

TYPICAL CHARACTERISTICS (Tr1,Tr2 common)

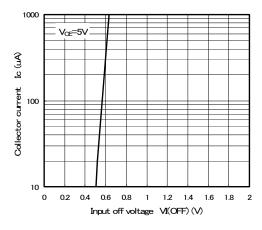




DC forward gain current - Collector current



Collector current -Input off voltage



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Marketing division, Marketing planning department

6-41 Tsukuba, Isahaya, Nagasaki, 854-0065 Japan

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