RT3N22U

Composite Transistor With Resistor For Switching Application Silicon Epitaxial Type

DESCRIPTION

RT3N22U is a composite transistor built with two RT1N241 in USM6F package.

FEATURE

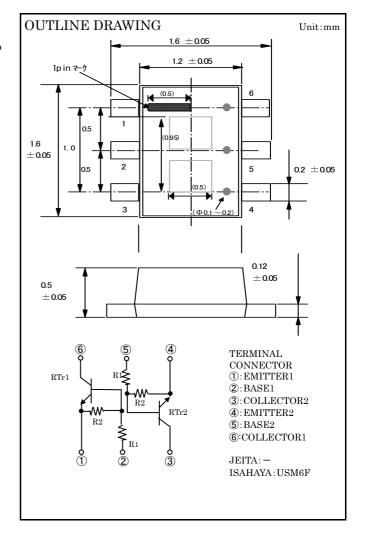
Silicon epitaxial type

Each transistor elements are independent.

Mini package for easy mounting

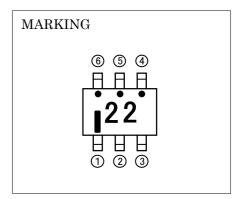
APPLICATION

Inverted circuit, switching circuit, interface circuit, driver circuit



MAXIMUM RATING (Ta=25°C)

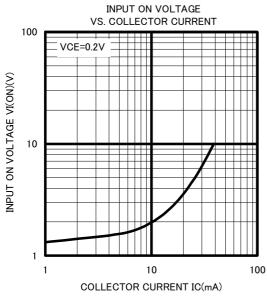
SYMBOL	PARAMETER	RATING	UNIT	
Vcbo	Collector to Base voltage	50	V	
VEBO	Emitter to Base voltage	10	V	
$V_{\rm CEO}$	Collector to Emitter voltage	50	V	
Ic	Collector current	100	mA	
ICM	Peak Collector current	200	mA	
Pc	Collector dissipation(Total, Ta=25°C)	125	mW	
Tj	Junction temperature	+150	°C	
$T_{ m stg}$	Storage temperature	-55~+150	°C	

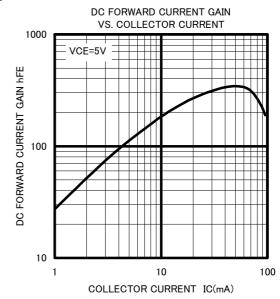


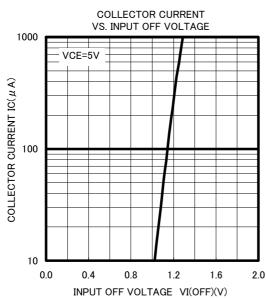
ELECTRICAL CHARACTERISTICS (Ta=25°C) (Tr1,Tr2 common)

Symbol	Parameter	Test conditions	Limits			TT '4
			Min	Тур	Max	Unit
V(BR)CEO	Collector to Emitter break down voltage	IC=100 μ A,RBE=∞	50	-	-	V
Ісво	Collector cut off current	V _{CB} =50V,I _E =0	-	-	0.1	μΑ
hfE	DC forward current gain	VCE=5V,IC=5mA	50	-	-	-
VCE(sat)	Collector to Emitter saturation voltage	I _C =10mA,I _B =0.5mA	-	0.1	0.3	V
VI(ON)	Input on voltage	VCE=0.2V,IC=5mA	-	1.8	3.0	V
VI(OFF)	Input off voltage	$V_{CE}=5V,I_{C}=100 \muA$	0.8	1.1	-	V
R ₁	Input resistor	-	16	22	28	kΩ
R ₂ /R ₁	Resistor ratio	-	0.9	1.0	1.1	-
fT	Gain band width product	Vce=6V,IE=-10mA	=	200	-	MHz

TYPICAL CHARACTERISTICS (Tr1,Tr2 common)









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