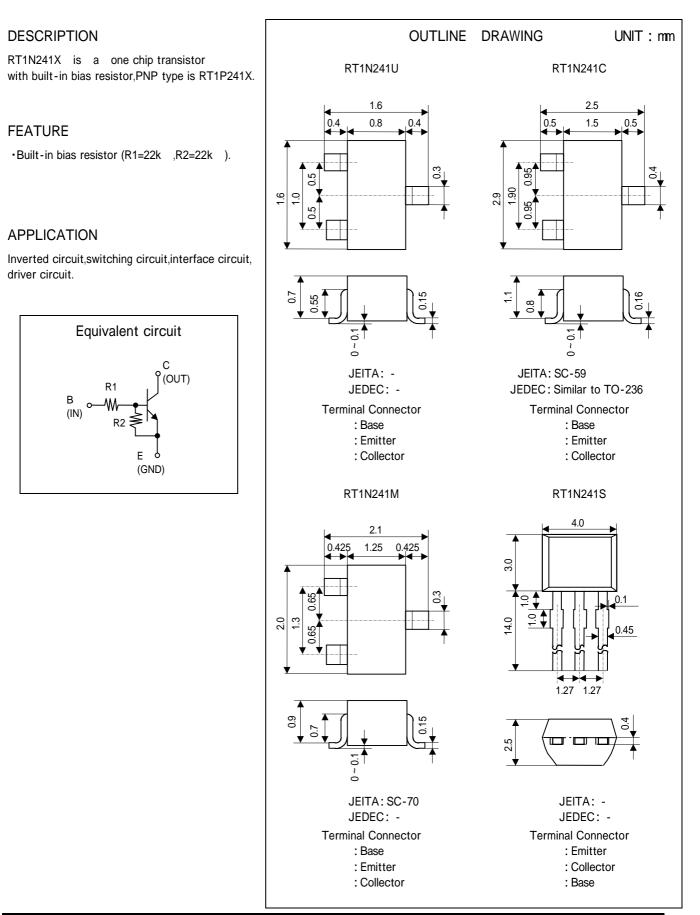
RT1N241X SERIES

Transistor Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type



ISAHAYA ELECTRONICS CORPORATION

RT1N241X SERIES

Transistor

Transistor With Resistor For Switching Application

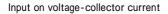
Silicon NPN Epitaxial Type

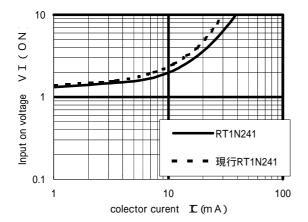
MAXIMUM RATING (Ta=25)

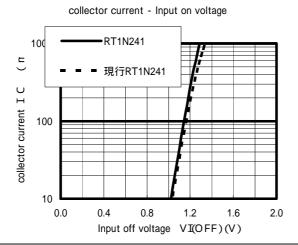
SYMBOL	PARAMETER	RATING				
		RT1N241U	RT1N241M	RT1N241C	RT1N241S	UNIT
V _{CBO}	Collector to Base voltage	50				
V _{EBO}	Emitter to Base voltage	10				
V _{CEO}	Collector to Emitter voltage	50				
I _c	Collector current	100				
I _{CM}	Peak Collector current	200				
P _c	Collector dissipation(Ta=25)	150	20	0	450	mW
Tj	Junction temperature	+150 +150				
Tstg	Storage temperature	-55 ~ +150	-55 ~ +150			

ELECTRICAL CHARACTERISTICS (Ta=25)

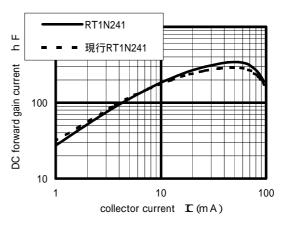
SYMBOL	PARAMETER	TEST CONDITION	LIMIT			UNIT
		TEST CONDITION	MIN	TYP	MAX	UNIT
V _{(BR)CEO}	C to E break down voltage	Ι _c =100 μ A , R _{BE} =	50			V
I _{CBO}	Collector cut off current	V _{CB} =50V , I _E =0			0.1	μA
h _{FE}	DC forward current gain	V_{CE} =5V , I _C =5mA	50			-
$V_{CE(sat)}$	C to E saturation voltage	I _c =10mA , I _B =0.5mA		0.1	0.3	V
V _{I(ON)}	Input on voltage	V _{CE} =0.2V , I _C =5mA		1.8	3.0	V
$V_{I(OFF)}$	Input off voltage	V_{CE} =5V , I _C =100 μ A	0.8	1.1		V
R ₁	Input resistance		16	22	28	k
R_2 / R_1	Resistance ratio		0.9	1.0	1.1	
f _T	Gain band width product	V _{CE} =6V , I _E =-10mA		200		MHz







DC forward gain current-collector current







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