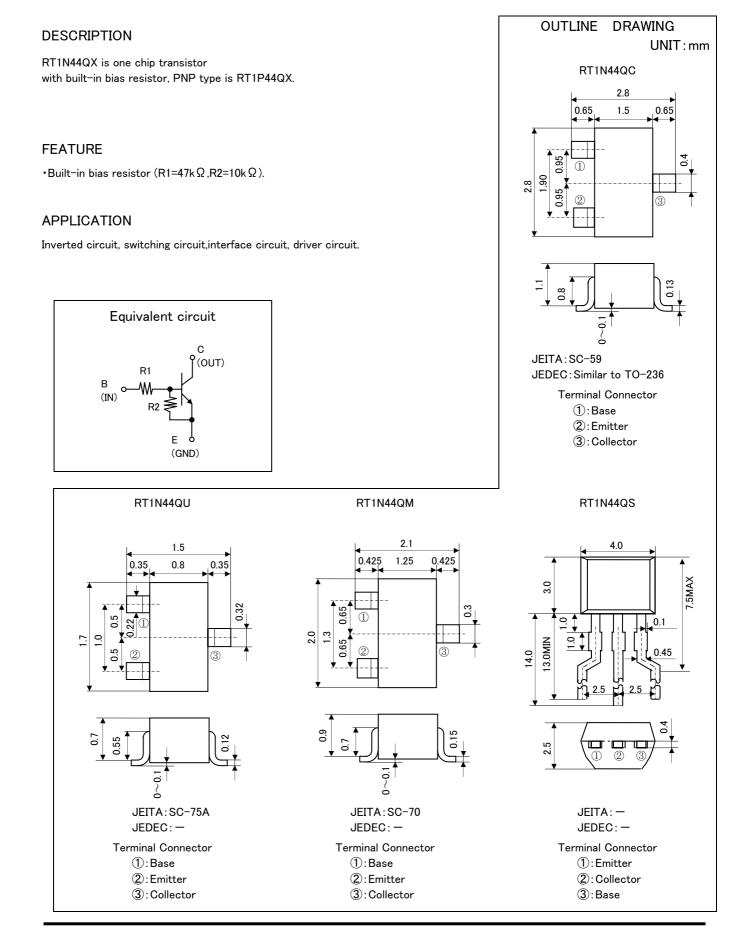
RT1N44QX SERIES

(Transistor)

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type



ISAHAYA ELECTRONICS CORPORATION

RT1N44QX SERIES

〈Transistor〉 Transistor With Resistor

For Switching Application Silicon NPN Epitaxial Type

MARKING

RT1N44QC RT1N44QM RT1N44QU	RT1N44QS
Type name	type name Lot No.

MAXIMUM RATING (Ta=25°C)

SYMBOL	PARAMETER	RATING				
		RT1N44QU	RT1N44QM	RT1N44QC	RT1N44QS	UNIT
V _{CBO}	Collector to Base voltage	50				V
V _{EBO}	Emitter to Base voltage	15				V
V _{CEO}	Collector to Emitter voltage	50				V
V _{IN}	Input voltage	40				V
Ι _c	Collector current	100				mA
I _{CM}	Peak Collector current	200			mA	
Pc	Collector dissipation(Ta=25°C)	150	20	00	450	mW
Tj	Junction temperature	+150			°C	
Tstg	Storage temperature	-55~+150			°C	

ELECTRICAL CHARACTERISTICS (Ta=25°C)

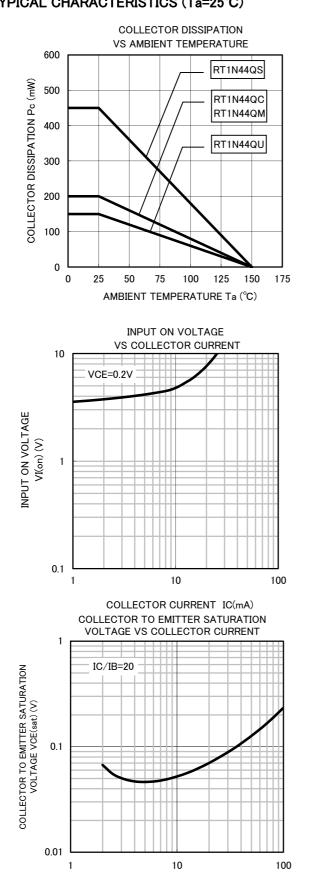
SYMBOL PARAMETER	DADAMETED	TEST CONDITION	LIMIT			UNIT
	TEST CONDITION		TYP	MAX		
$V_{(BR)CEO}$	C to E break down voltage	$I_{c}=100 \mu$ A, $R_{BE}=\infty$	50		—	V
I _{CBO}	Collector cut off current	V _{CB} =50V, I _E =0	—	1	0.1	μA
I _{EBO}	Emitter cut off current	V_{EB} =5V, I _c =0	66	88	127	μA
h _{FE}	DC forward current gain	V_{ce} =5V, I _c =5mA	33		—	—
$V_{CE(sat)}$	C to E saturation voltage	I _c =10mA, I _B =0.5mA	—	-	0.3	V
V _{I(ON)}	Input on voltage	V _{ce} =0.2V, I _c =5mA	—	4.2	8.9	V
$V_{I(OFF)}$	Input off voltage	V_{CE} =5V, I _C =100 μ A	2.3	3.1	—	V
R ₁	Input resistor	_	33	47	61	kΩ
R_2 / R_1	Resistor ratio	—	0.17	0.21	0.26	—
f⊤	Gain band width product	V _{CE} =6V, I _E =-10mA	—	200	_	MHz

RT1N44QX SERIES

1000

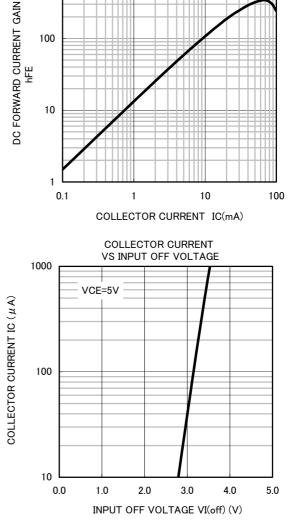
VCE=5V

Transistor With Resistor For Switching Application Silicon NPN Epitaxial Type



COLLECTOR CURRENT IC(mA)

TYPICAL CHARACTERISTICS (Ta=25°C)



DC FORWARD CURRENT GAIN

VS COLLECTOR CURRENT

ISAHAYA ELECTRONICS CORPORATION

(Transistor)

ISAHAYA ELECTRONICS CORPORATION

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