RTAN430X SERIES

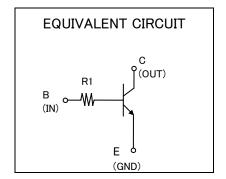
TRANSISTOR WITH RESISTOR
FOR MUTING APPLICATION
SILICON NPN EPITAXIAL TYPE

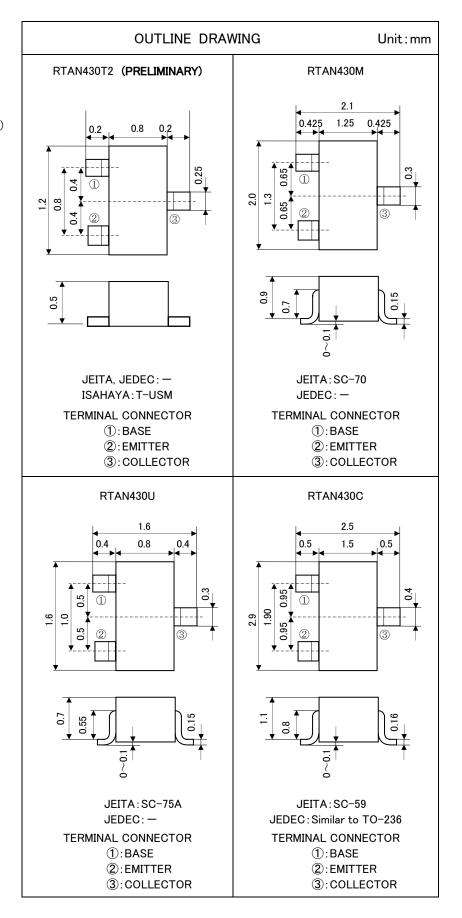
FEATURE

- •Built-in bias resistor (R1=4.7k Ω)
- ·Small package for easy mounting.
- ·High reverse hFE
- Small collector to emitter saturation voltage.
 VCE(sat)=10mV(TYP.)(@IC=10mA/IB=0.5mA)
- -Low on Resistance Ron=0.80 Ω (TYP.)(@VI=5V)

APPLICATION

muting circuit, switching circuit





RTAN430X SERIES

TRANSISTOR WITH RESISTOR
FOR MUTING APPLICATION
SILICON NPN EPITAXIAL TYPE

MAXIMUM RATING(Ta=25°C)

SYMBOL	PARAMETER	RATING				
		RTAN430T2	RTAN430U	RTAN430M	RTAN430C	UNIT
V_{CBO}	Collector to Base voltage	40				
V_{EBO}	Emitter to Base voltage	40				
V_{CEO}	Collector to Emitter voltage	20				
Ιc	Collector current	400				
P _c	Collector dissipation(Ta=25°C)	125(※)	150	200		mW
Tj	Junction temperature	+125	+150			°C
Tstg	Storage temperature	−55 ~ +125	−55∼+150			°C

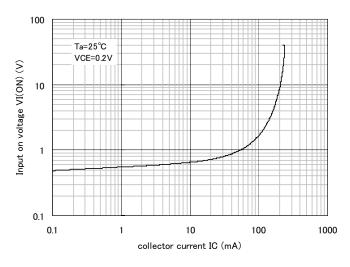
ELECTRICAL CHARACTERISTICS (Ta=25°C)

%package mounted on 9mm \times 19mm \times 1mm glass-epoxy substrate.

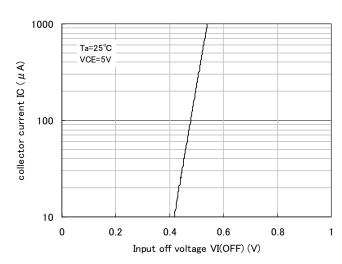
				_		
SYMBOL	PARAMETER	TEST CONDITION		LIMIT		
		TEST CONDITION	MIN	TYP	MAX	UNIT
$V_{(BR)CBO}$	C to B break down voltage	$I_{c}=50 \mu A, I_{E}=0mA$	40			V
$V_{(BR)EBO}$	E to B break down voltage	$I_{E}=50 \mu A, I_{C}=0mA$	40			V
$V_{(BR)CEO}$	C to E break down voltage	I _c =1mA, R _{BE} =∞	20			V
I _{CBO}	Collector cut off current	V_{CB} =40V, I _E =0mA			0.5	μΑ
I _{EBO}	Emitter cut off current	V_{EB} =40V, I $_{C}$ =0mA			0.5	μΑ
h _{FE}	DC forward current gain	V_{CE} =5V, I _C =10mA	820		2500	_
$V_{CE(sat)}$	C to E saturation voltage	I_{C} =10mA, I_{B} =0.5mA		10		mV
R_1	Input resistance		3.29	4.7	6.11	kΩ
f⊤	Gain band width product	V _{CE} =10V, I _E =-10mA, f=100MHz		38		MHz
R _{on}	Output "ON" resistance	$V_{I}=5V$, $R_{L}=1k\Omega$		0.80		Ω

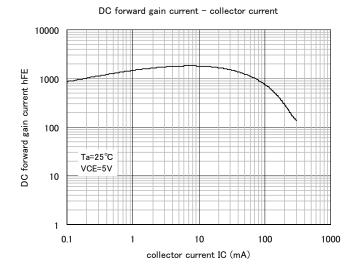
TYPICAL CHARACTERISTICS

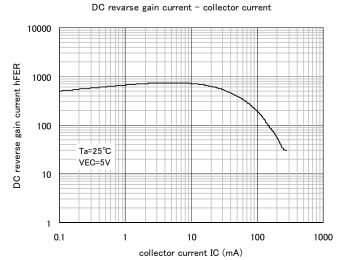


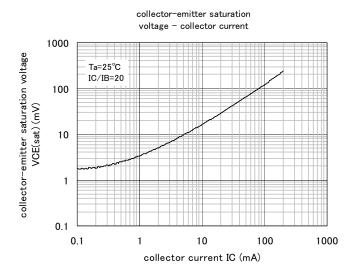


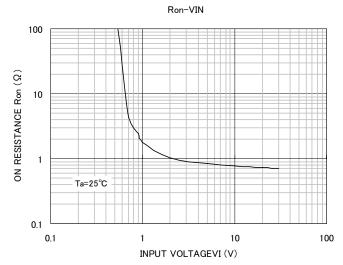
collector current - Input on voltage













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