UNR5226

Silicon NPN epitaxial planer type

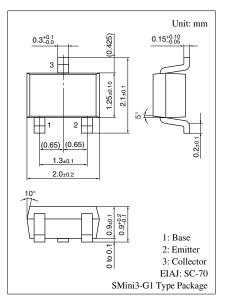
For muting circuit

Features

- Low collector to emitter saturation voltage $V_{CE(sat)}$
- Built-in resistor, allowing reduction of the number of parts.

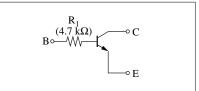
Parameter	Symbol	Rating	Unit			
Collector to base voltage	V _{CBO}	30	V			
Collector to emitter voltage	V _{CEO}	20	V			
Emitter to base voltage	V _{EBO}	5	V			
Collector current	I _C	600	mA			
Total power dissipation	P _T	150	mW			
Junction temperature	Tj	150	°C			
Storage temperature	T _{stg}	-55 to +150	°C			

Absolute Maximum Ratings $T_a = 25^{\circ}C$



Marking Symbol: FY

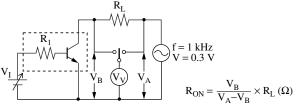
Internal Connection

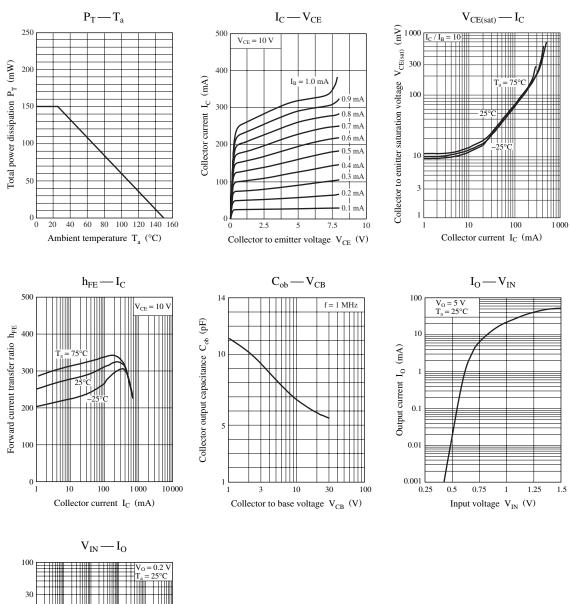


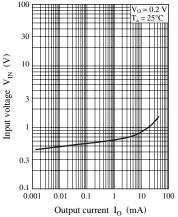
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector to base voltage	V _{CBO}	$I_{\rm C} = 1 \ \mu A, \ I_{\rm E} = 0$	30			V
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = 1 {\rm mA}, I_{\rm B} = 0$	20			V
Emitter to base voltage	V _{EBO}	$I_E = 1 \ \mu A, I_C = 0$	5			V
Collector cutoff current	I _{CBO}	$V_{CB} = 30 \text{ V}, I_E = 0$			1	μΑ
Emitter cutoff current	I _{EBO}	$V_{EB} = 5 V, I_C = 0$			1	μΑ
Forward current transfer ratio	h _{FE}	$V_{CE} = 5 \text{ V}, \text{ I}_{C} = 50 \text{ mA}$	100		600	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 50 \text{ mA}, I_{\rm B} = 2.5 \text{ mA}$			80	mV
Input resistance	R ₁		-30%	4.7	+30%	kΩ
ON-resistance *	R _{ON}	$V_I = 7 V, R_L = 1 k\Omega, f = 1 kHz$		0.95		Ω
Transition frequency	f _T	$V_{CB} = 10 \text{ V}, I_E = -50 \text{ mA}, f = 200 \text{ MHz}$		200		MHz

\blacksquare Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Note) *: R_{ON} measurement circuit







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