DRC2523Y

Silicon NPN epitaxial planar type

For digital circuits

Complementary to DRA2523Y

Features

- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

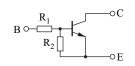
Packaging

Embossed type (Thermo-compression sealing): 3000 pcs / reel (standard)

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

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V _{CBO}	50	V
Collector-emitter voltage (Base open)	V _{CEO}	50	V
Collector current	I _C	500	mA
Total power dissipation	P _T	200	mW
Junction temperature	T _j 150		°C
Storage temperature	T _{stg}	-55 to +150	°C

- Package
- Code
- Mini3-G3-B
- Pin Name
 - 1: Base
 - 2: Emitter
 - 3: Collector
- Marking Symbol: TH
- Internal Connection



Resistance	R ₁	2.2	kΩ
value	R ₂	10	kΩ

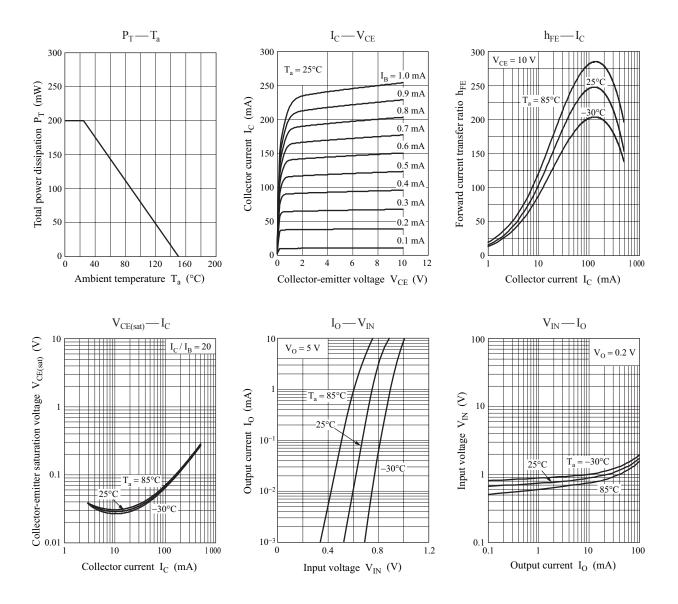
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 10 \ \mu {\rm A}, I_{\rm E} = 0$	50			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = 2 {\rm mA}, I_{\rm B} = 0$	50			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = 50 \text{ V}, I_E = 0$			1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = 50 \text{ V}, I_{B} = 0$			1	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{\rm EB} = 6 \text{V}, \text{I}_{\rm C} = 0$			1	mA
Forward current transfer ratio	\mathbf{h}_{FE}	$V_{CE} = 10 \text{ V}, I_C = 100 \text{ mA}$	60			
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 100 \text{ mA}, I_{\rm B} = 5 \text{ mA}$			0.25	V
Input voltage (ON)	V _{I(on)}	$V_{CE} = 0.2 \text{ V}, I_C = 5 \text{ mA}$	1.9			V
Input voltage (OFF)	V _{I(off)}	$V_{CE} = 5 \text{ V}, I_C = 100 \mu\text{A}$			0.4	V
Input resistance	R ₁		-30%	2.2	+30%	kΩ
Resistance ratio	R ₁ / R ₂		0.17	0.22	0.27	

Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

DRC2523Y

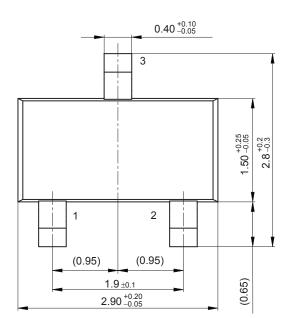
Panasonic

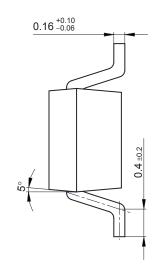


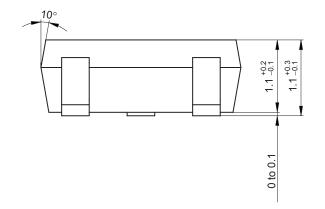
Panasonic

Mini3-G3-B

Unit: mm







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