DRA5144W

Silicon PNP epitaxial planar type

For digital circuits Complementary to DRC5144W DRA2144W in SMini3 type package

Features

- \bullet Low collector-emitter saturation voltage $V_{CE(sat)}$
- 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 $T_a = 25^{\circ}C$

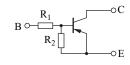
Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	-50	V	
Collector-emitter voltage (Base open)	V _{CEO}	-50	V	
Collector current	I _C	mA		
Total power dissipation	P _T	150	mW	
Junction temperature	Tj	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

Package

- Code
- SMini3-F2-B
- Pin Name
 - 1: Base
 - 2: Emitter
 - 3: Collector

Marking Symbol: LK

Internal Connection



Resistance value	R ₁	47	kΩ
	R ₂	22	kΩ

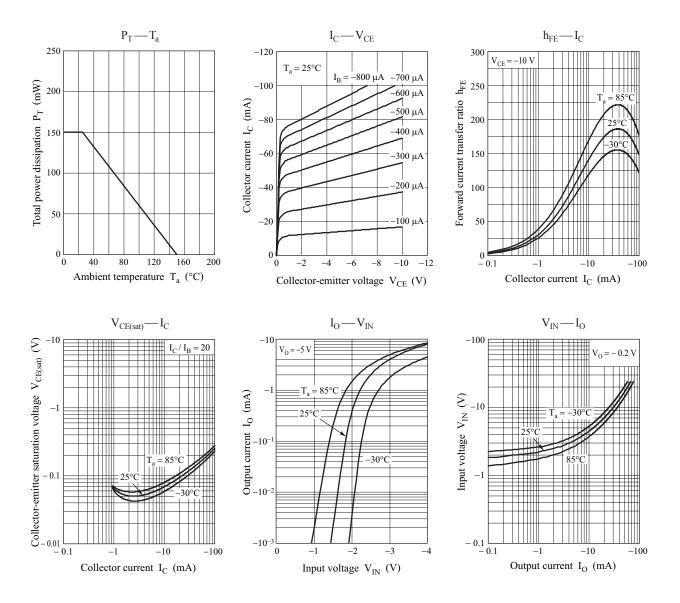
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

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}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-50			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{\rm CB} = -50$ V, $I_{\rm E} = 0$			- 0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{\rm CE} = -50$ V, $I_{\rm B} = 0$			- 0.5	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = -6 \text{ V}, I_C = 0$			- 0.2	mA
Forward current transfer ratio	h _{FE}	$V_{\rm CE} = -10$ V, $I_{\rm C} = -5$ mA	60			_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = -0.5 \text{ mA}$			-0.25	V
Input voltage (ON)	V _{I(on)}	$V_{\rm CE} = -0.2$ V, $I_{\rm C} = -5$ mA	-4.4			V
Input voltage (OFF)	V _{I(off)}	$V_{CE} = -5 \text{ V}, I_C = -100 \mu\text{A}$			-1.2	V
Input resistance	R ₁		-30%	47	+30%	kΩ
Resistance ratio	R ₁ / R ₂		1.70	2.14	2.60	

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

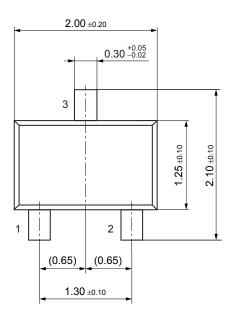
DRA5144W

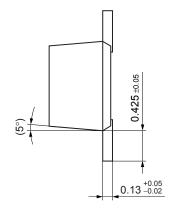
Panasonic



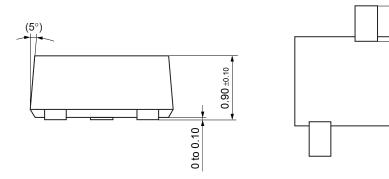
SMini3-F2-B

Unit: mm





(0.49)



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