DMC205C0

Silicon NPN epitaxial planar type

For low frequency amplification

Features

- High forward current transfer ratio h_{FE} with excellent linearity
- \bullet Low collector-emitter saturation voltage $V_{\text{CE}(\text{sat})}$
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Basic Part Number

Dual DSC2C01 (Individual)

Packaging

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

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	_{CBO} 100		
Collector-emitter voltage (Base open)	V _{CEO}	100	V	
Emitter-base voltage (Collector open)	V_{EBO}	15	V	
Collector current	I_{C}	20	mA	
Peak collector current	I_{CP}	50	mA	
Total power dissipation	P_{T}	300	mW	
Junction temperature	T_j	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

■ Package

• Code

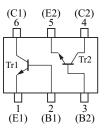
Mini6-G4-B

Pin Name

1: Emitter (Tr1) 4: Collector (Tr2) 2: Base (Tr1) 5: Emitter (Tr2) 3: Base (Tr2) 6: Collector (Tr1)

■ Marking Symbol: D6

■ Internal Connection

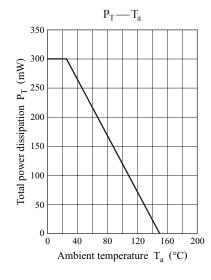


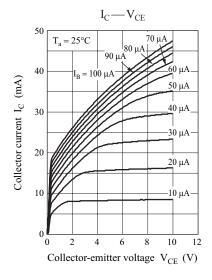
■ Electrical Characteristics $T_a = 25$ °C±3°C

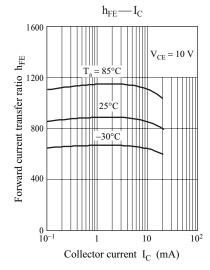
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V_{CBO}	$I_C = 10 \mu A, I_E = 0$	100			V
Collector-emitter voltage (Base open)	V_{CEO}	$I_C = 1 \text{ mA}, I_B = 0$	100			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = 10 \mu A, I_C = 0$	15			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = 60 \text{ V}, I_{E} = 0$			0.1	μΑ
Collector-emitter cutoff current (Base open)	I_{CEO}	$V_{CE} = 60 \text{ V}, I_{B} = 0$			1	μΑ
Forward current transfer ratio	h_{FE}	$V_{CE} = 10 \text{ V}, I_{C} = 2 \text{ mA}$	400		1200	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = 10 \text{ mA}, I_B = 1 \text{ mA}$		0.05	0.20	V
Transition frequency	f_T	$V_{CE} = 10 \text{ V}, I_{C} = 2 \text{ mA}$		140		MHz

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

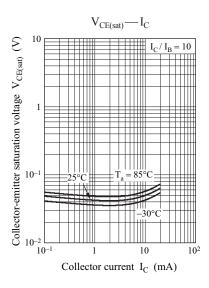
DMC205C0

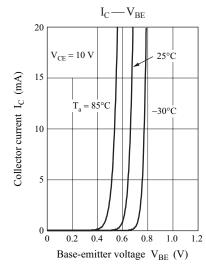


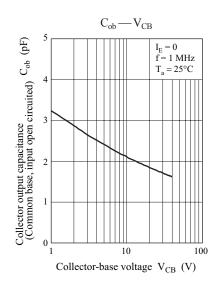


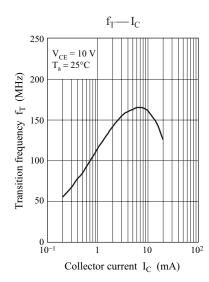


Panasonic



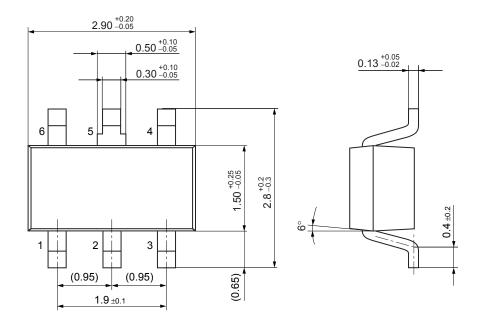


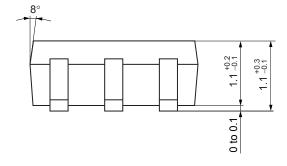




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Mini6-G4-B Unit: mm





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