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DSC3G03

Silicon NPN epitaxial planar type

For high-frequency amplification DSC5G03 in SSSMini3 type package

■ Features

- \bullet High forward current transfer ratio h_{FE} with excellent linearity
- High transition frequency f_T
- Contributes to miniaturization of sets, reduction of component count.
- Eco-friendly Halogen-free package

■ Packaging

Embossed type (Thermo-compression sealing): 10000 pcs / reel (standard)

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol Rating		Unit	
Collector-base voltage (Emitter open)	V _{CBO}	30	V	
Collector-emitter voltage (Base open)	V _{CEO}	20	V	
Emitter-base voltage (Collector open)	V_{EBO}	3	V	
Collector current	I_{C}	50	mA	
Collector power dissipation	P _C	100	mW	
Junction temperature	T_j	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

■ Package

• Code

SSSMini3-F2-B

- Pin Name
 - 1. Base
 - 2. Emitter
 - 3. Collector

■ Marking Symbol: C6

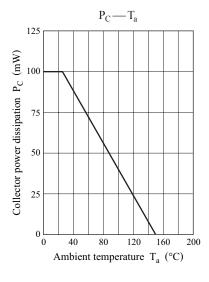
■ Electrical Characteristics $T_a = 25$ °C±3°C

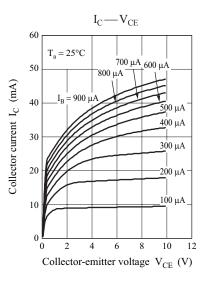
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_C = 100 \mu A, I_E = 0$	30			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_E = 10 \mu A, I_C = 0$	3			V
Base-emitter voltage	V_{BE}	$V_{CE} = 10 \text{ V}, I_{C} = 2 \text{ mA}$		740		mV
Forward current transfer ratio	h_{FE}	$V_{CE} = 10 \text{ V}, I_{C} = 2 \text{ mA}$	25		250	_
Transition frequency *	f_T	$V_{CE} = 10 \text{ V}, I_{C} = 15 \text{ mA}$	800		1600	MHz
Reverse transfer capacitance (Common emitter)	C _{re}	$V_{CE} = 10 \text{ V}, I_{C} = 1 \text{ mA}, f = 10.7 \text{ MHz}$		0.9		pF
Reverse transfer capacitance (Common base)	C _{rb}	$V_{CB} = 6 \text{ V}, I_C = 0, f = 1 \text{ MHz}$		0.7		pF
Power gain	PG	$V_{CE} = 10 \text{ V}, I_{C} = 1 \text{ mA}, f = 200 \text{ MHz}$		20		dB

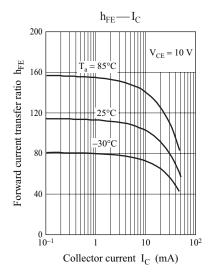
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

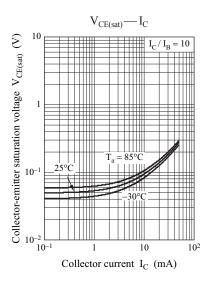
^{2. *:} Pulse measurement

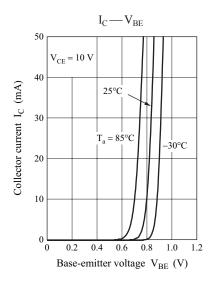
DSC3G03 Panasonic

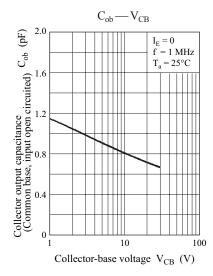


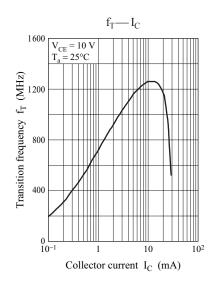








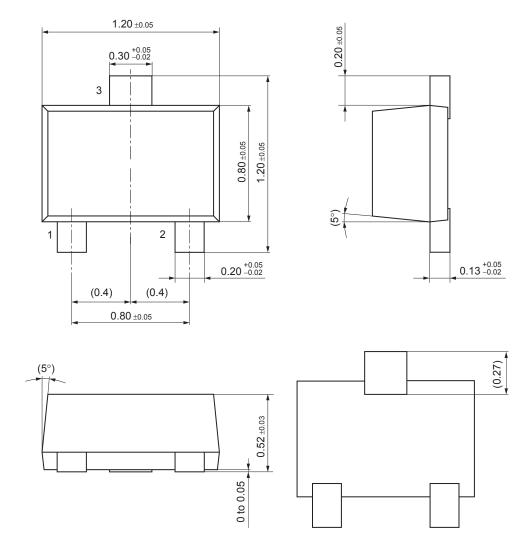




2 Ver. AED

SSSMini3-F2-B

Unit: mm



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