2SD2620G

Silicon NPN epitaxial planar type

For low-frequency driver amplification

Features

- \bullet High forward current transfer ratio h_{FE}
- \bullet Low collector-emitter saturation voltage $V_{CE(sat)}$
- \bullet High emitter-base voltage (Collector open) V_{EBO}

Absolute maximum matings $T_a = 25$ C							
Parameter	Symbol	Rating	Unit				
Collector-base voltage (Emitter open)	V _{CBO}	100	v				
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				
Collector power dissipation	P _C	125	mW				
Junction temperature	Tj	125	°C				
Storage temperature	T _{stg}	-55 to +125	°C				

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

- Package
- Code
 - SSMini3-F3
- Marking Symbol: 3B
- Pin Name
 - 1: Base
 - 2: Emitter
 - 3: Collector

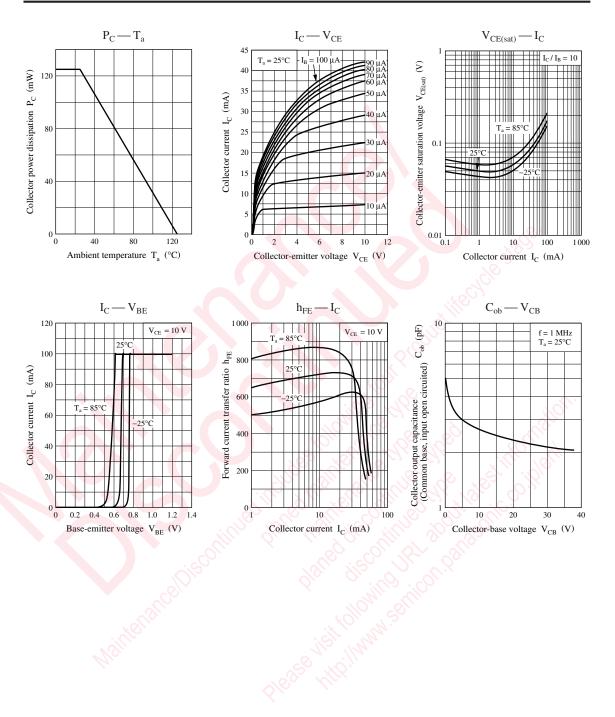
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

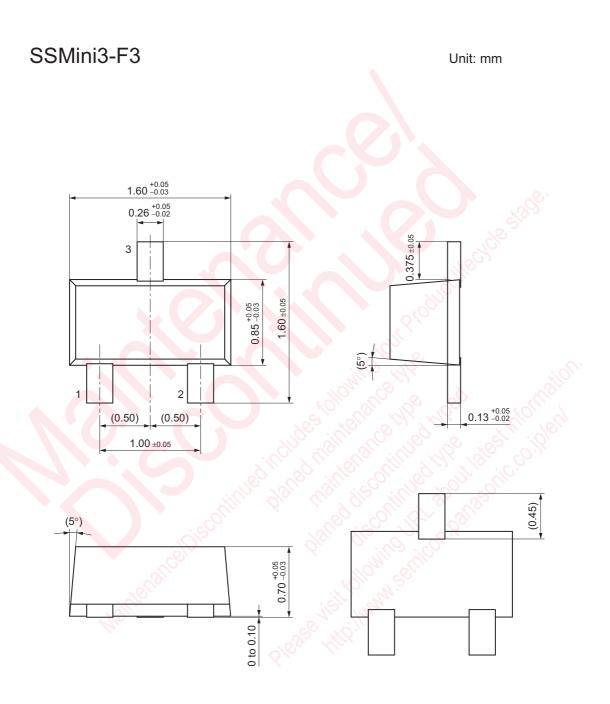
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 10 \ \mu A, I_{\rm E} = 0$	100	10	·C	V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = 1 \text{ mA}, I_{\rm B} = 0$	100	011		V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = 10 \ \mu A, I_{\rm C} = 0$	15	52		V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = 60 \text{ V}, I_E = 0$	00.		0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = 60 V, I_B = 0$			1.0	μΑ
Forward current transfer ratio	h _{FE}	$V_{CE} = 10 \text{ V}, I_C = 2 \text{ mA}$	400		1 2 0 0	
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 10 \text{ mA}, I_{\rm B} = 1 \text{ mA}$		0.05	0.20	V
Transition frequency	f _T	$V_{CB} = 10 \text{ V}, I_E = -2 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Noise voltage	NV	$V_{CE} = 10 \text{ V}, I_C = 1 \text{ mA}, G_V = 80 \text{ dB}$ $R_g = 100 \text{ k}\Omega, \text{ Function} = \text{FLAT}$		80		mV

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

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