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Transistor

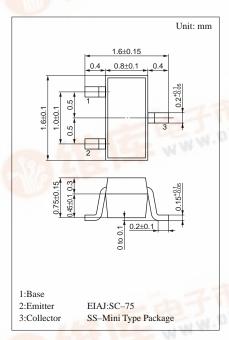
2SC4808

Silicon NPN epitaxial planer type

For UHF band low-noise amplification WWW.DZSC.COM

- Features
- Low noise figure NF.
- High gain.
- High transition frequency f_T. •
- SSMini type package, allowing downsizing of the equipment and automatic insertion through the tape packing.

Parameter	Symbol	Ratings	Unit	
Collector to base voltage	V _{CBO}	15	V	
Collector to emitter voltage	V _{CEO}	10	V	
Emitter to base voltage	V _{EBO}	2	V	
Collector current	I _C	80	mA	
Collector power dissipation	P _C	125	mW	
Junction temperature	Tj	125	°C	
Storage temperature	T _{stg}	-55 ~ +125	°C	
Storage temperature	T _{stg}	-55 ~ +125	°C	



Marking symbol : 3M

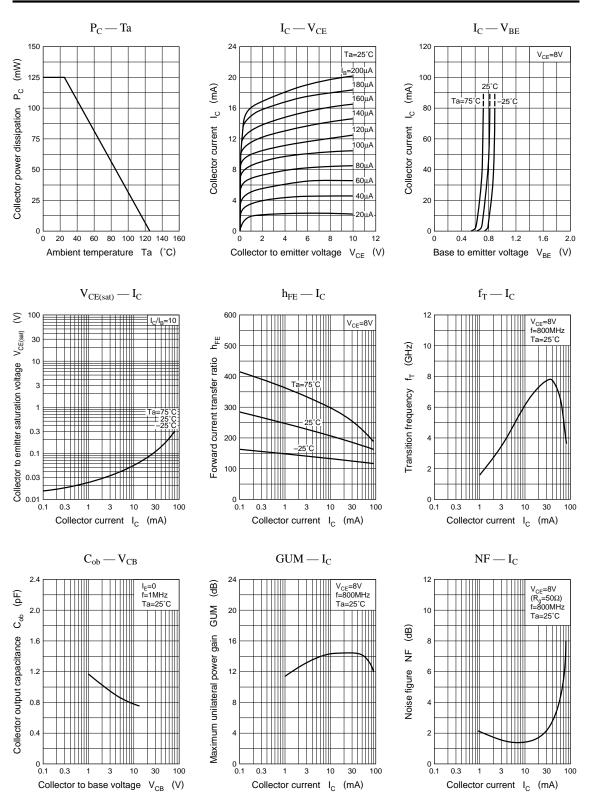
Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 10V, I_E = 0$			1	μA
Emitter cutoff current	I _{EBO}	$V_{EB} = 2V, I_C = 0$		1 6	1	μA
Collector to base voltage	V _{CBO}	$I_{\rm C} = 10\mu A, I_{\rm E} = 0$	15		A P	V
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = 100 \mu A, I_{\rm B} = 0$	10			V
Forward current transfer ratio	h _{FE}	$V_{CE} = 8V, I_{C} = 20mA^{*}$	50	150	300	
Transition frequency	f _T	$V_{CE} = 8V, I_{C} = 15mA, f = 800MHz$	5	6		GHz
Collector output capacitance	C _{ob}	$V_{CB} = 10V, I_E = 0, f = 1MHz$		0.7	1.2	pF
Foward transfer gain	$ S_{21e} ^2$	$V_{CE} = 8V, I_{C} = 15mA, f = 800MHz$	11	14		dB
Maximum unilateral power gain	GUM	$V_{CE} = 8V, I_{C} = 15mA, f = 800MHz$		15		dB
Noise figure	NF	$V_{CE} = 8V, I_C = 7mA, f = 800MHz$			2	dB



* Pulse measurement

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