

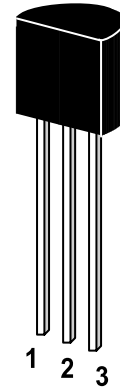
# ST 2SD468

## NPN Silicon Epitaxial Planar Transistor

Low Frequency Power amplifier applications.

The transistor is subdivided into two groups B and C according to its DC current gain.

On special request, these transistors can be manufactured in different pin configurations.



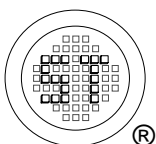
1. Emitter 2. Collector 3. Base

TO-92 Plastic Package

Weight approx. 0.19g

## Absolute Maximum Ratings (Ta=25 °C)

	Symbol	Value	Unit
Collector Base Voltage	$V_{CBO}$	25	V
Collector Emitter Voltage	$V_{CEO}$	20	V
Emitter Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	1	A
Peak Collector Current	$I_{CM}$	1.5	A
Power Dissipation	$P_{tot}$	0.9	W
Junction Temperature	$T_j$	150	°C
Storage Temperature Range	$T_s$	-55 to +150	°C



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ISO/TS 16949 : 2002  
Certificate No. 05103



ISO 14001:2004  
Certificate No. 7116



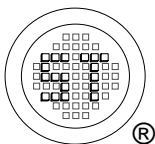
ISO 9001:2000  
Certificate No. 0506098

Dated : 07/12/2002

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## Characteristics at $T_{amb}=25\text{ }^{\circ}\text{C}$

	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=2V$ , $I_C=0.5A$ Current Gain Group	B				
	C				
	$h_{FE}$	85	-	170	-
	$h_{FE}$	120	-	240	-
Collector Emitter Breakdown Voltage at $I_C=1mA$	$V_{(BR)CEO}$	20	-	-	V
Collector Base Breakdown Voltage at $I_C=10\mu A$	$V_{(BR)CBO}$	25	-	-	V
Emitter Base Breakdown Voltage at $I_E=10\mu A$	$V_{(BR)EBO}$	5	-	-	V
Collector Cutoff Current at $V_{CB}=20V$	$I_{CBO}$	-	-	1	$\mu A$
Collector Saturation Voltage at $I_C=0.8A$ , $I_B=0.08A$	$V_{CE(sat)}$	-	0.2	0.5	V
Base Emitter Voltage at $V_{CE}=2V$ , $I_C=0.5A$	$V_{BE}$	-	0.79	1	V
Collector Output Capacitance at $V_{CB}=10V$ , $f=1MHz$	$C_{OB}$	-	22	-	pF
Transition Frequency at $V_{CE}=2V$ , $I_C=0.5A$	$f_T$	-	190	-	MHz



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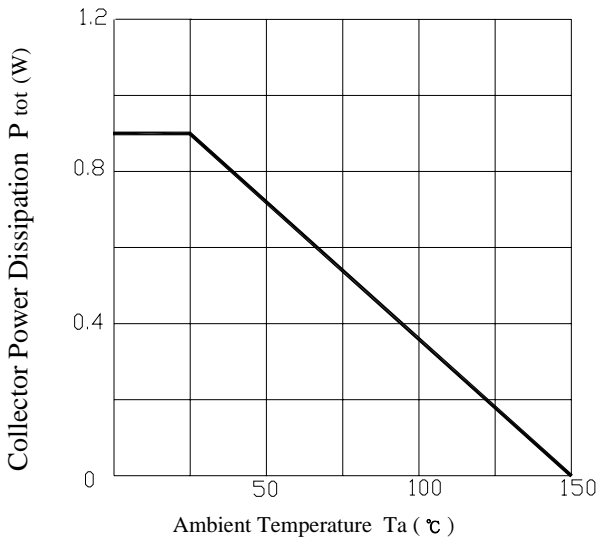
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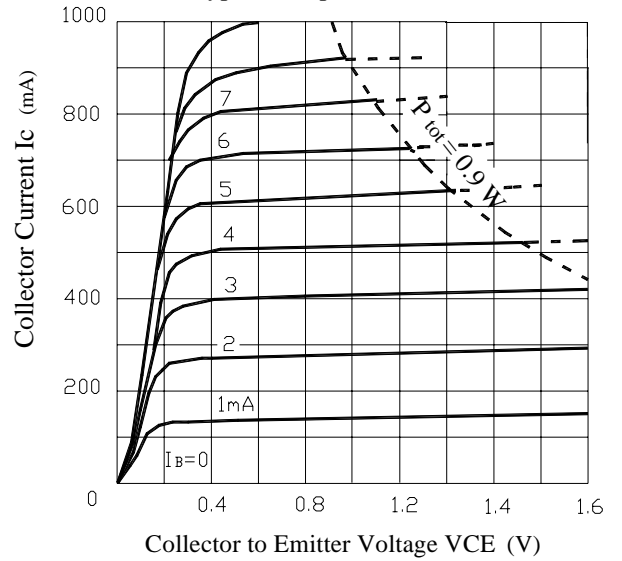
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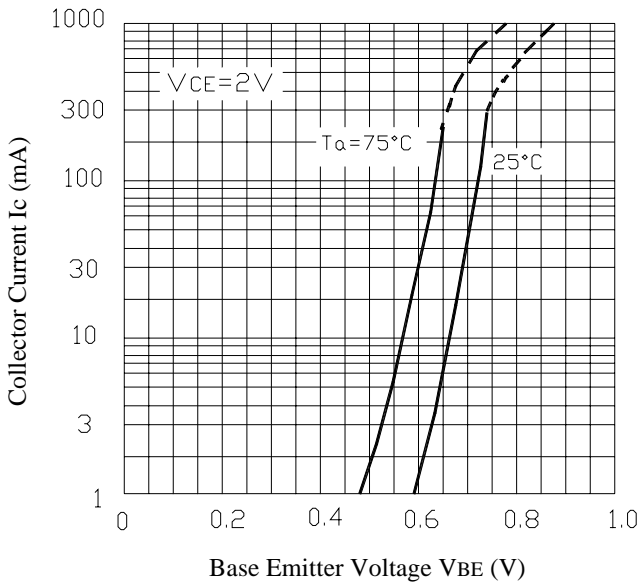
Maximum Collector Dissipation Curve



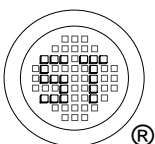
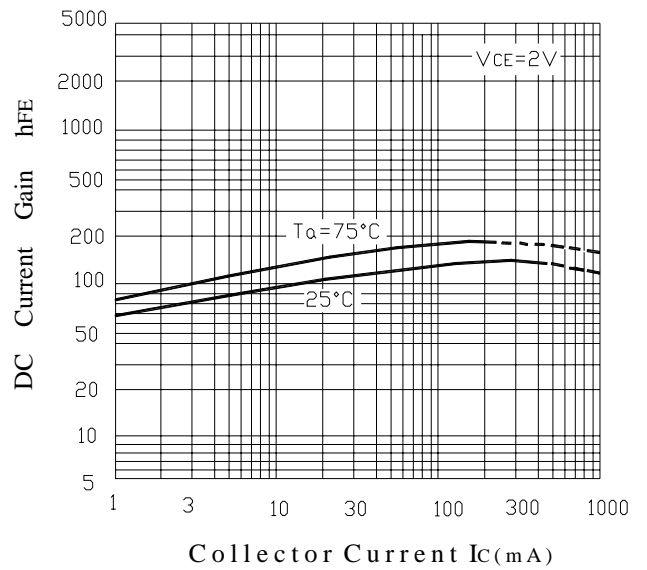
Typical Output Characteristics



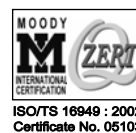
Typical Transfer Characteristics



DC Current Gain vs. Collector Current

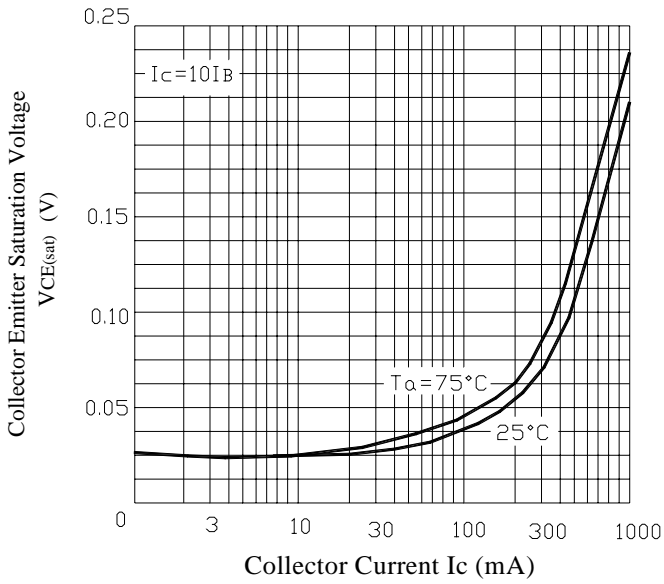


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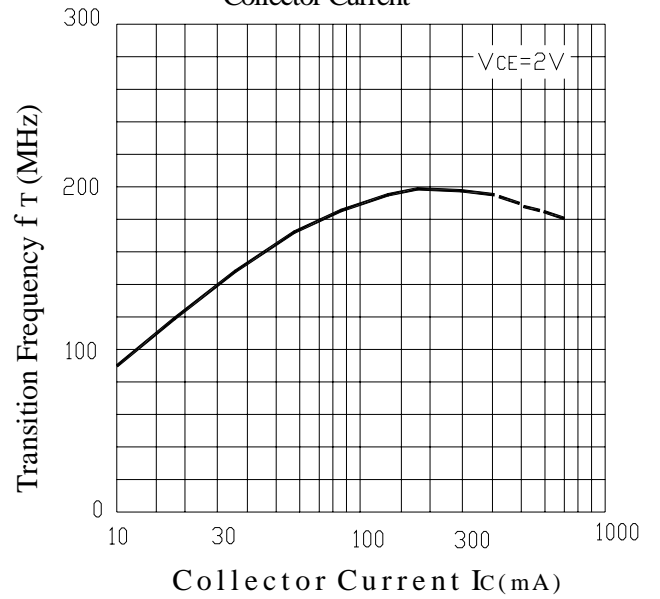


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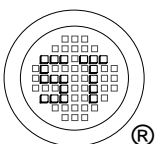
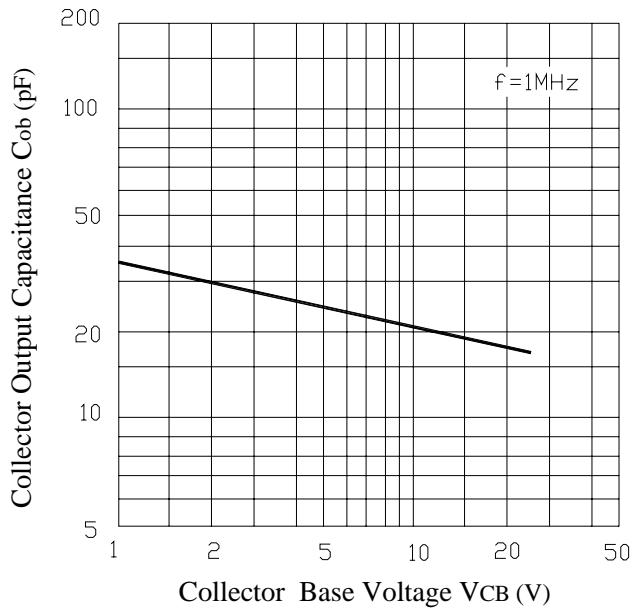
Collector Emitter Saturation Voltage vs. Collector Current



Transition Frequency v.s. Collector Current



Collector Output Capacitance vs. Collector Base Voltage



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