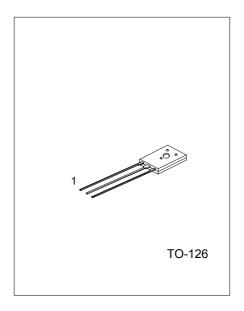
# BIPOLAR POWER GENERAL PURPOSE TRANSISTOR

#### **APPLICATIONS**

\* Low frequency power amplifier complementary pair with UTC 2SB649/A



#### 1:EMITTER 2:COLLECTOR 3:BASE

#### ABSOLUTE MAXIMUM RATINGS (Ta=25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	Vсво	180	V
Collector-emitter voltage	VCEO		V
2SD669		120	
2SD669A		160	
Emitter-base voltage	VEBO	5	V
Collector current	lc	1.5	A
Collector peak current	IC <sub>(peak)</sub>	3	Α
Collector power dissipation	Pc	1	W
Collector power dissipation (T <sub>C</sub> =25°C)	Pc	20	W
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55 ~ +150	°C

#### ELECTRICAL CHARACTERISTICS (Ta=25°C, unless otherwise specified)

IN	TYP	B 4 A V	
		MAX	UNIT
30			V
			V
20			
30			
5			V
		10	μА
0		320	
0			
		1	V
		1.5	V
	80 20 60 5 60 80	80 20 60 5	80 20 60 55 10 320 60 1

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### UTC 2SD669/A

## NPN EPITAXIAL SILICON TRANSISTOR

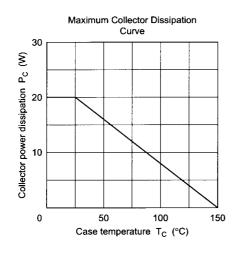
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Current gain bandwidth product	f⊤	VcE=5V,lc=150mA (note)		140		MHz
Output capacitance	Cob	Vcb=10V, IE=0, f=1MHz		14		pF

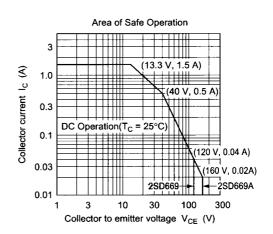
Note: Pulse test.

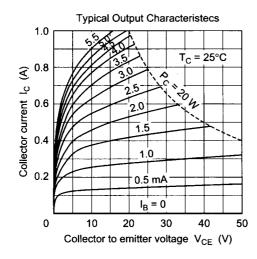
#### CLASSIFICATION OF h<sub>FF1</sub>

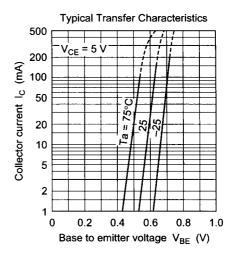
	. ! - !	-	ā
RANK	В	С	D
RANGE	60-120	100-200	160-320

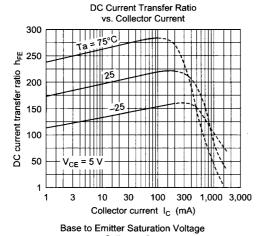
#### TYPICAL PARAMETERS PERFORMANCE

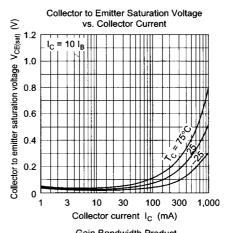


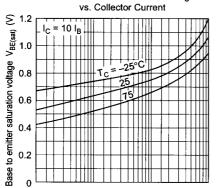






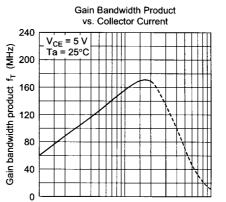






10 30 100

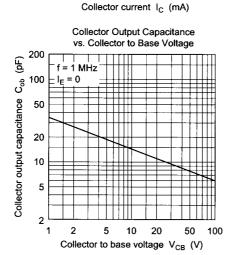
0



100

Collector current I<sub>C</sub> (mA)

10



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