DESCRIPTION

The BCP69 is available in SOT-223 Package.

FEATURE

- High Current (Max. 1A)
- Low Voltage(max.20V)
- Complements to BCP68

ORDERING INFORMATION

Package Type	Part Number	
	BCP69	
SOT-223	BCP69-16	
	BCP69-25	
Note SPQ: 2,500pcs/Reel		
AiT provides all RoHS Compliant Products		

PIN DESCRIPTION



hee	CLASSIFICATION
	OLACOII IOATION

Classification	hFE
BCP69	83 ~ 375
BCP69-16	100 ~ 250
BCP69-25	160 ~ 375

PIN#	DESCRIPTION	
1	BASE	
2, 4	COLLECTOR	
3	EMITTER	

ABSOLUTE MAXIMUM RATINGS

T_A = 25°C, unless otherwise specified

,	
V _{CBO} , Collector-Base Voltage	-32V
V _{CEO} , Collector-Emitter Voltage	-20V
V _{EBO} , Emitter-Base Voltage	-5V
Ic, Collector Current-Continuous	-1A
Icp, Collector Current-Pulse	-2A
I _{BP} , Base Current-Pulse	-0.2A
Pc, Collector Power Dissipation	1.35W
T _{stg} , Storage Temperature Range	-65°C ∼ + 150°C
T _j , Junction Temperature Range	150°C
R _{0,JA} , Thermal Resistance from Junction to Ambient	91°C/W
R _{0,JS} , Thermal Resistance from Junction to Soldering Point	10°C/W

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

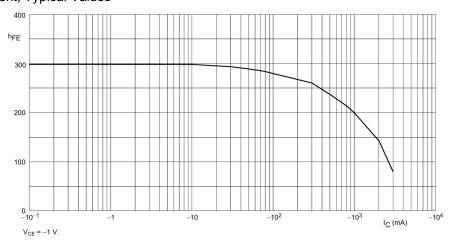
ELECTRICAL CHARACTERISTICS

T_a = 25°C, unless otherwise specified

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Unit
		I _E =0, V _{CB} = -25V	-	-	-100	
Collector Cut-Off Current	Ісво	I _E =0A, V _{CB} = -25V,			10	μΑ
		Tj=150°C	-	-	-10	
Emitter Cut-Off Current	I _{EBO}	I _C =0A, V _{EB} = -5V	-	-	-100	nA
Collector-base breakdown voltage	Vсво	I _C = -100μA, I _E =0	-32	-	-	
Collector-emitter breakdown voltage	V_{CEO}	I_C = -1mA, I_B =0	-20	-	-	V
Emitter-base breakdown voltage	V _{EBO}	I _E = -100μA, I _C =0	-5	-	-	
Collector-Emitter Saturation Voltage	V _{CE(sat)}	I _C = 1A, I _B = -100mA			-0.5	V
Base-Emitter Saturation Voltage	V _{BE(sat)}	I _C = -1A, I _B = -100mA			-1.2	٧
Base-Emitter Voltage	V _{BE}	I _C = -5mA, V _{CE} = -10V		-0.62		V
		I _C = -1A, V _{CE} = -1V			-1	
		I _C = -5mA, V _{CE} = -10V	50	-	-	
DC Current Gain	h _{FE}	I _C = -500mA, V _{CE} = -1V	85	-	375	-
		I _C = -1A, V _{CE} = -1V	60	-	-	
DC Current Gain	Cob	V_{CB} = -5V, I_E =Ie=0,	-	48	ı	pF
		f=1MHz				
Transit frequency	f⊤	V _{CE} = -5V, I _C = -10mA,	40	-		m)/
		f=100MHz			-	mV

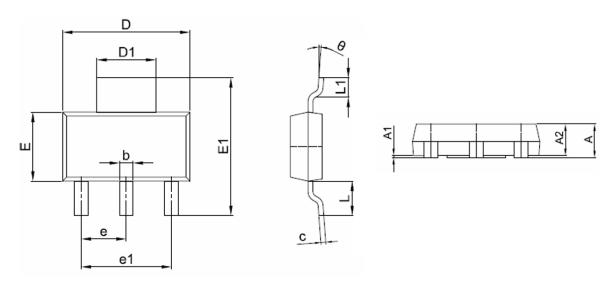
TYPICAL PERFORMANCE CHARACTERISTICS

Fig 1. DC Current; Typical Values



PACKAGE INFORMATION

Dimension in SOT-223 Package



CVMDOL	MILLIMETERS		
SYMBOL	Min.	Max.	
А	1.500	1.800	
A1	0.000	0.100	
A2	1.500	1.700	
b	0.650	0.750	
С	0.200	0.300	
D	6.400	6.600	
D1	2.900	3.100	
E	3.300	3.700	
E1	6.850	7.150	
е	2.200	2.400	
e1	4.400	4.800	
L	1.650	1.850	
L1	0.900	1.150	

BCP69
TRANSISTORS
PNP TRANSISTOR

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