

Analog IP Cell

1 μ A Bias Source

Bias1u XB06

General Description

This cell is a low power Bias Source PTAT and UBE compensated with 1 μ A Output current.

Ratings, Parameters and Conditions

Parameter / Condition	Symbol	Min	Typ.	Max	Unit	Comment
Electrical Parameters:						
Operating Temperature	TOP	-40		85	°C	
Supply Voltage	VDD	3,0	5,0	5,5	V	
Current consumption	IDD	4	5	9	μ A	
Output current p	IBIASP	0.74	1	1.28	μ A	VBIASP<VDD-0.4V
Output current n	IBIASN	0.74	1	1.28	μ A	VBIASN>0.4V
TK1 Output current	TK1		2e-4		1/K	
TK2 Output current	TK2		2e-7		1/K2	
Power supply rejection ratio	PSRR	110db			dB	f<100kHz
Absolute Maximum Ratings:						
Operating Temperature	T _{range}	-40		120	°C	
Supply Voltage	V _{dd}	-0.3		7	V	
Input Voltage	V _{in}	-0.3		V _{dd} +0.7		
Output Voltage	V _{out}	-0.3		V _{dd} +0.7		

IO-Description

Interface	I/O	Function	Comment
Bias_OUT	Output	-	
GND, VDD	Input	voltage supply	

Symbol

