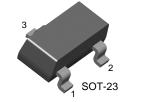
查询"MMBT2907AK"供应商

FAIRCHILD

SEMICONDUCTOR®

MMBT2907AK PNP Epitaxial Silicon Transistor

General Purpose Transistor





1. Base 2. Emitter 3. Collector

Absolute Maximum Ratings T_a = 25°C unless otherwise noted

Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	-60	V	
V _{CEO}	Collector-Emitter Voltage	-60	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
I _C	Collector Current	-600	mA	
P _C	Collector Power Dissipation	350	mW	
T _{STG}	Storage Temperature	150	°C	

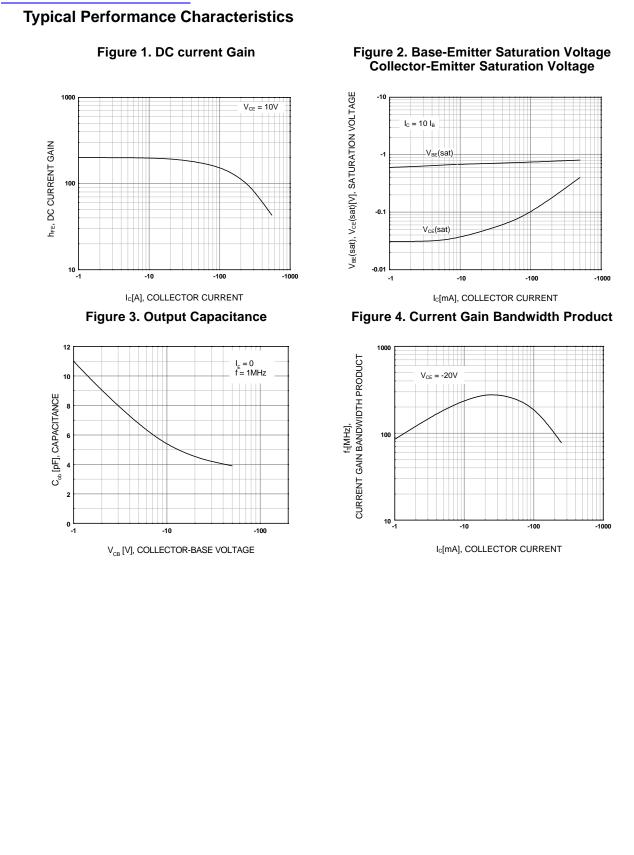
Electrical Characteristics T_=25°C unless otherwise noted

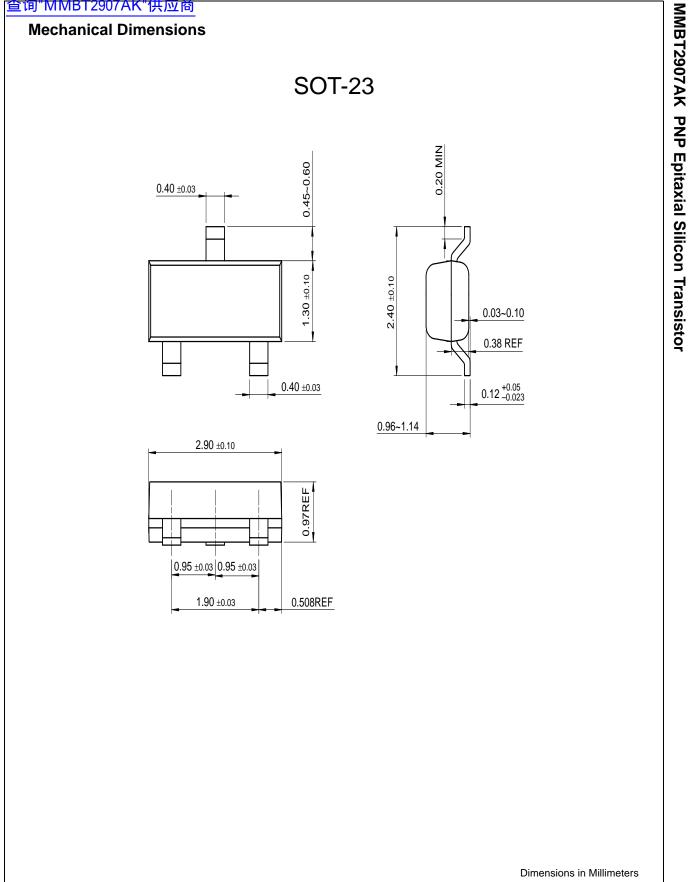
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_{\rm C} = -10\mu A, I_{\rm E} = 0$	-60		V
BV _{CEO}	Collector-Emitter Breakdown Voltage *	$I_{\rm C} = -10 {\rm mA}, \ I_{\rm B} = 0$	-60		V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_{\rm E} = -10 \mu A, \ I_{\rm C} = 0$	-5		V
I _{CBO}	Collector Cut-off Current	$V_{CB} = -50V, I_E = 0$		-0.01	μA
h _{FE}	DC Current Gain	$V_{CE} = -10V, I_C = -0.1mA \\ V_{CE} = -10V, I_C = -1.0mA \\ V_{CE} = -10V, I_C = -10mA \\ V_{CE} = -10V, I_C = -150mA * \\ V_{CE} = -10V, I_C = -500mA * \\ \end{array}$	75 100 100 100 50	300	
V _{CE} (sat)	Collector-Emitter Saturation Voltage *	I _C = -150mA, I _B = -15mA I _C = -500mA, I _B = -50mA		-0.4 -1.6	V V
V _{BE} (sat)	Base-Emitter Saturation Voltage *	I _C = -150mA, I _B = -15mA I _C = -500mA, I _B = -50mA		-1.3 -2.6	V V
f _T	Current Gain Bandwidth Product	I _C = -50mA, V _{CE} = -20V, f = 100MHz	200		MHz
C _{ob}	Output Capacitance	$V_{CB} = -10V, I_E = 0, f = 1.0MHz$		8	pF
t _{ON}	Turn On Time	V _{CC} = -30V, I _C = -150mA I _{B1} = -15mA		50	ns
t _{OFF}	Turn Off Time	$V_{CC} = -6V, I_C = -150mA$ $I_{B1} = I_{B2} = -15mA$		110	ns

* Pulse Test: Pulse Width≤300µs, Duty Cycle≤2%

February 2005

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Definition of Terms

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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.		
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