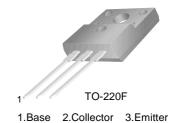


KSD1588

Low Frequency Power Amplifier • Low Speed Switching

- Complement to KSB1097



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	100	V
V _{CEO}	Collector-Emitter Voltage	60	V
V _{EBO}	Emitter-Base Voltage	7	V
I _C	Collector Current (DC)	7	А
I _{CP}	*Collector Current (Pulse)	15	А
I _B	Base Current	3.5	А
P _C	Collector Dissipation (T _a =25°C)	2	W
P _C	Collector Dissipation (T _C =25°C)	30	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

^{*} PW≤300μs, Duty Cycle≤10%

Electrical Characteristics T_C=25°C unless otherwise noted

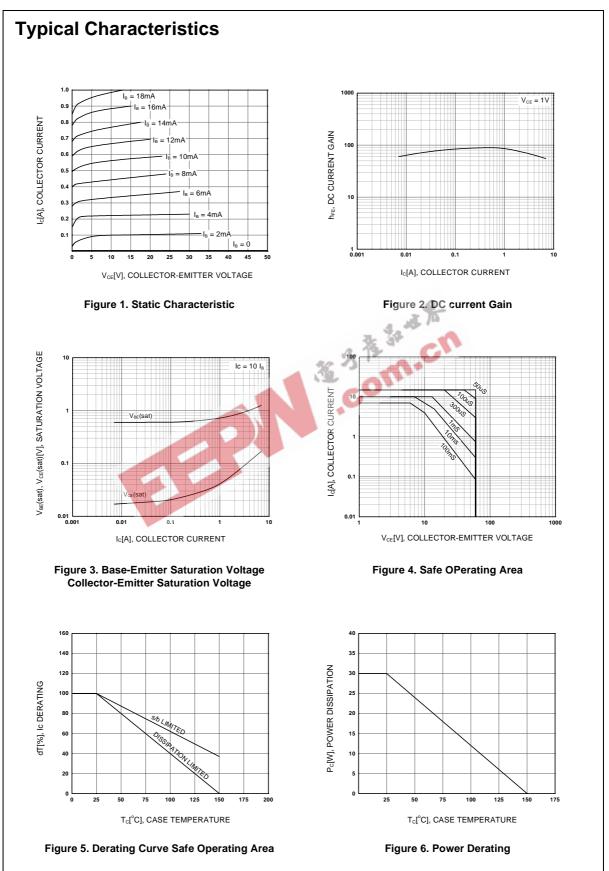
Symbol	Parameter	Test Condition	Min.	Max.	Units
I _{CBO}	Collector Cut-off Current	$V_{CB} = 80V, I_{E} = 0$		10	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 5V, I_{C} = 0$		10	μΑ
h _{FE1}	*DC Current Gain	$V_{CE} = 1V, I_{C} = 3A$	40	200	
h _{FE2}		$V_{CE} = 1V, I_{C} = 5A$	20		
V _{CE} (sat)	*Collector-Emitter Saturation Voltage	$I_C = 5A, I_B = 0.5A$		0.5	V
V _{BE} (sat)	*Base-Emitter Saturation Voltage	$I_C = 5A, I_B = 0.5A$		1.5	V

^{*} Pulse Test: PW≤350μs, Duty Cycle≤2%

h_{FE1} Classification

Classification	R	0	Y
h _{FE1}	40 ~ 80	80 ~ 120	100 ~ 200

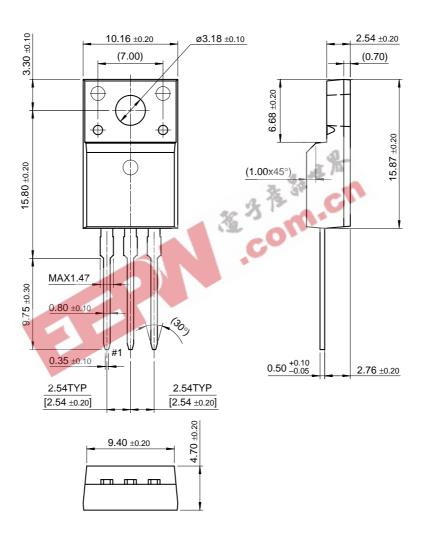
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Package Demensions

TO-220F



Dimensions in Millimeters

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- 2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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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.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.

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