

SEMICONDUCTOR IM

KSD1588

Low Frequency Power Amplifier

- Low Speed Switching
- Complement to KSB1097



1.Base 2.Collector 3.Emitter

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
с	Collector Current (DC)	7	А
СР	*Collector Current (Pulse)	15	А
В	Base Current	3.5	А
Pc	Collector Dissipation (T _a =25°C)	2	W
^р с С	Collector Dissipation (T _C =25°C)	30	W
Tj	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

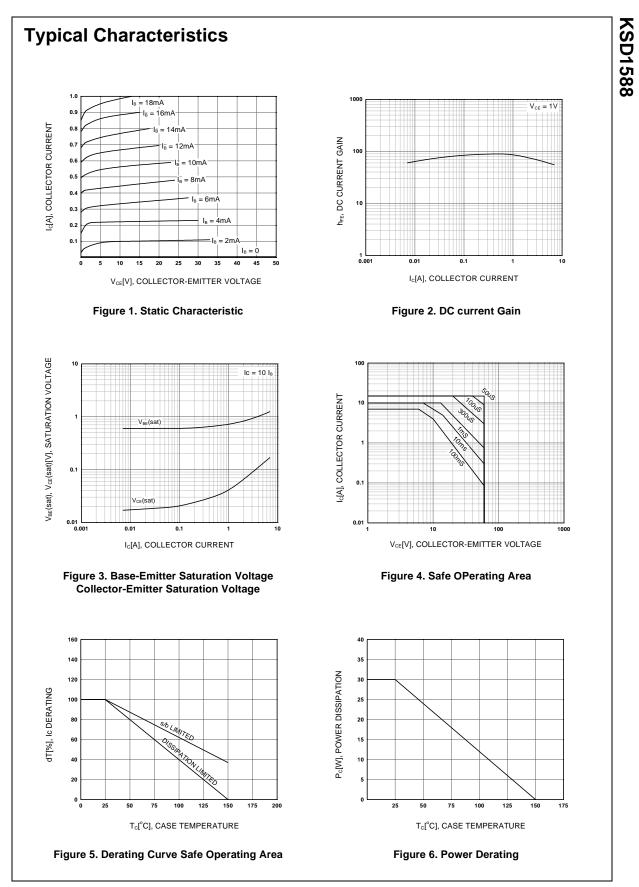
Symbol	Parameter	Test Condition	Min.	Max.	Units
I _{CBO}	Collector Cut-off Current	$V_{CB} = 80V, I_E = 0$		10	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 5V, I_{C} = 0$		10	μΑ
h _{FE1}	*DC Current Gain	$V_{CE} = 1V, I_{C} = 3A$	40	200	
h _{FE2}		$V_{CE} = 1V, I_C = 5A$	20		
V _{CE} (sat)	*Collector-Emitter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

* Pulse Test: PW≤350µs, Duty Cycle≤2%

h_{FE1} Classification

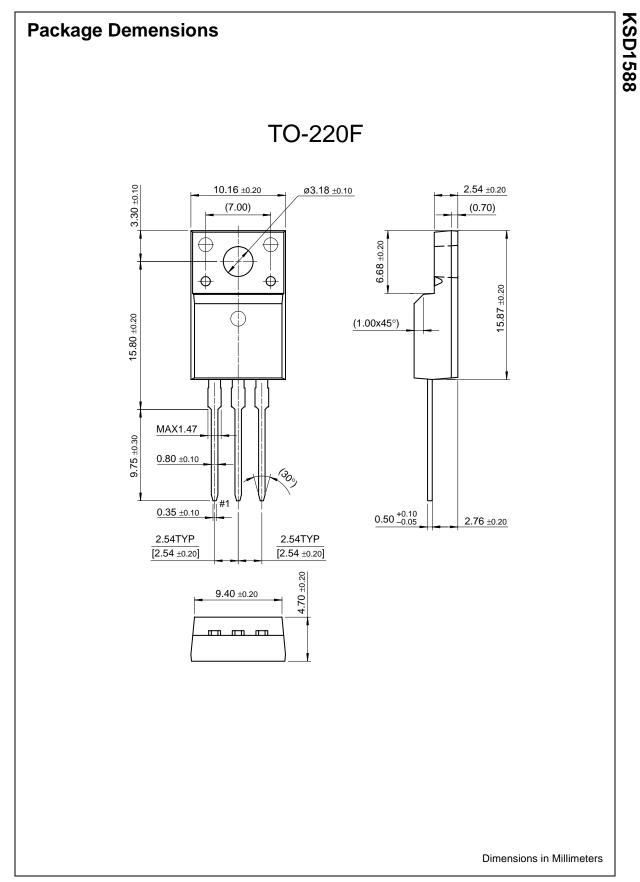
Classification	R	0	Y
h _{FE1}	40 ~ 80	80 ~ 120	100 ~ 200

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