

KSD882

Audio Frequency Power Amplifier Low Speed Switching

Complement to KSB772



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector- Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter- Base Voltage	5	V
l _C	Collector Current (DC)	3	А
I _{CP}	*Collector Current (Pulse)	7	Α
l _B	Base Current	0.6	Α
P _C	Collector Dissipation (T _C =25°C)	10	W
P _C	Collector Dissipation (T _a =25°C)	1	W
P _C P _C T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

Electrical Characteristics T_C=25°C unless otherwise noted

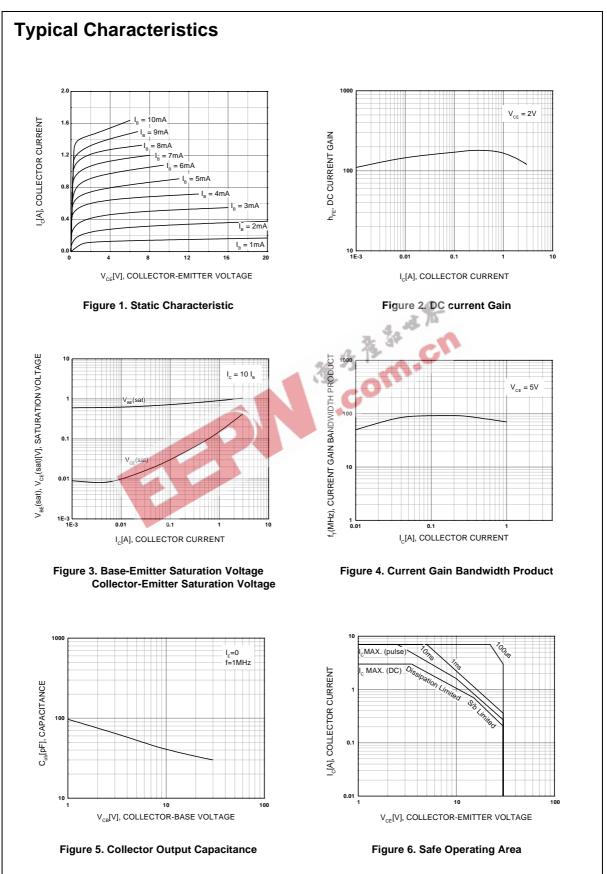
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CBO}	Collector Cut-off Current	$V_{CB} = 30V, I_{E} = 0$			1	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = 3V, I_{C} = 0$			1	μΑ
h _{FE1}	*DC Current Gain	$V_{CE} = 2V, I_{C} = 20mA$	30	150		
h_{FE2}		$V_{CE} = 2V, I_{C} = 1A$	60	160	400	
V _{CE} (sat)	*Collector-Emitter Saturation Voltage	$I_C = 2A, I_B = 0.2A$		0.3	0.5	V
V _{BE} (sat)	*Base-Emitter Saturation Voltage	$I_C = 2A, I_B = 0.2A$		1.0	2.0	V
f _T	Current Gain Bandwidth Product	$V_{CE} = 5V, I_{E} = 0.1A$		90		MHz
C _{ob}	Output Capacitance	$V_{CB} = 10V, I_{E} = 0$		45		pF
		f = 1MHz				

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

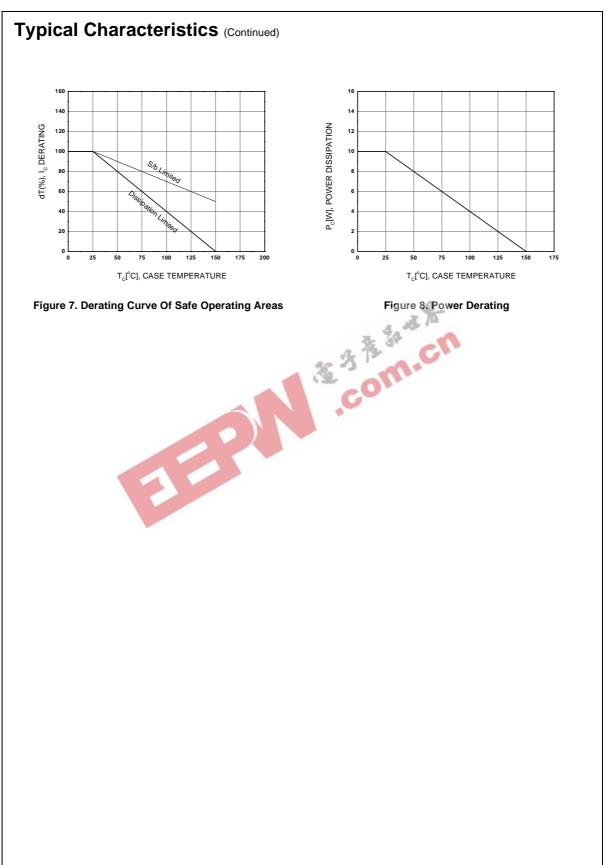
h_{FE} Classificntion

Classification	R	0	Y	G
h _{FE2}	60 ~ 120	100 ~ 200	160 ~ 320	200 ~ 400

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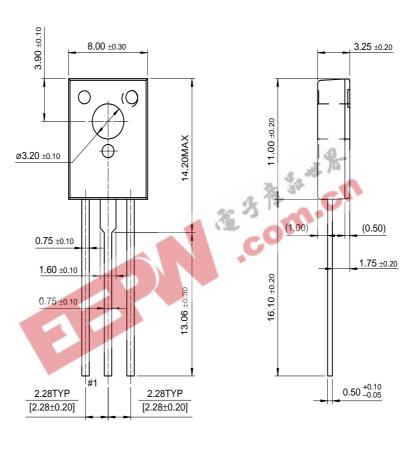


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Package Demensions

TO-126



Dimensions in Millimeters

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