

SEMICONDUCTOR TM

KSA1243

Power Amplifier Applications Complement to KSC3073



PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_{C}=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	- 30	V
V _{CEO}	Collector-Emitter Voltage	- 30	V
V _{EBO}	Emitter-Base Voltage	- 5	V
I _B	Base Current	- 0.6	А
I _C	Collector Current	- 3	А
P _C	Collector Dissipation (T _a =25°C)	1	W
P _C	Collector Dissipation (T _C =25°C)	10	W
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

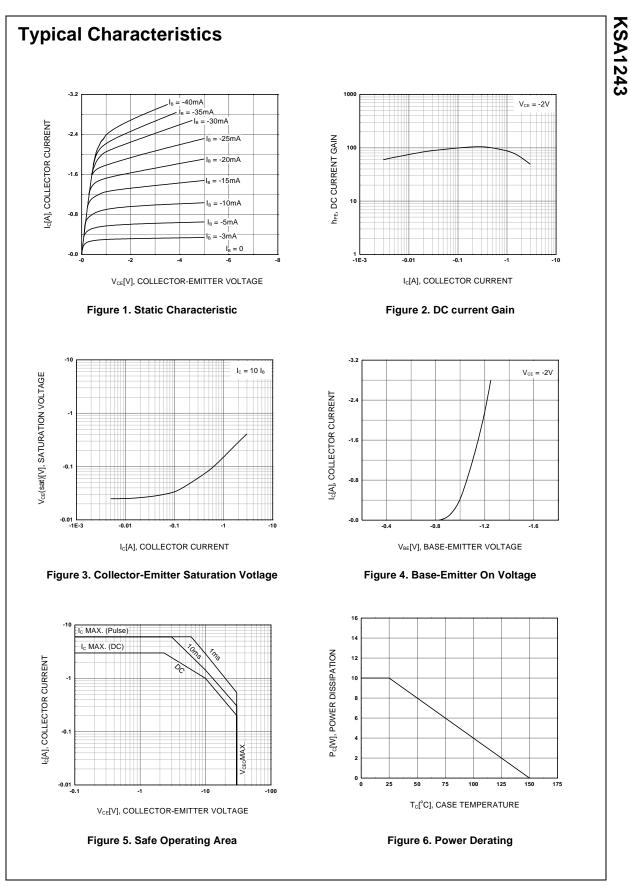
Electrical Characteristics $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = - 10mA, I _B = 0	- 30			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = - 1mA, I _C = 0	- 5			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = -20V, I_E = 0$			- 1	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$			- 1	μΑ
h _{FE1}	DC Current Gain	V _{CE} = - 2V, I _C = - 0.5A	70		240	
h _{FE2}		$V_{CE} = -2V, I_{C} = -2.5A$	25			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = - 2A, I _B = - 0.2A		- 0.3	- 0.8	V
V _{BE} (on)	Base-Emitter ON Voltage	V _{CE} = - 2V, I _C = - 0.5A		- 0.75	- 1	V
f _T	Current Gain Bandwidth Product	V _{CE} = - 2V, I _C = - 0.5A		100		MHz
C _{ob}	Output Capacitance	V _{CB} = - 10V, f = 1MHz		40		pF

h_{FE} Classification

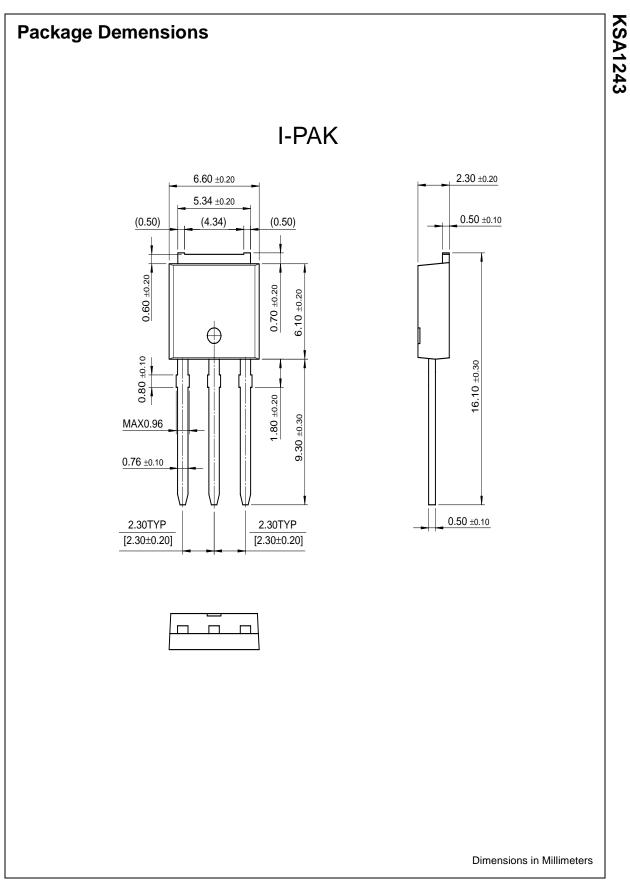
Classification	0	Y	
h _{FE1}	70 ~ 140	120 ~ 240	

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