

KSA1241

Power Amplifier Applications

- Low Collector-Emitter Saturation Voltage
- Complement to KSC3076



PNP Epitaxial Silicon Transistor

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

Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	- 55	V
V _{CEO}	Collector-Emitter Voltage	- 50	V
V _{EBO}	Emitter-Base Voltage	- 5	V
I _B	Base Current	- 1	Α
I _C	Collector Current	- 2	А
P _C	Collector Dissipation (T _a =25°C)	1	W
P _C	Collector Dissipation (T _C =25°C)	10	W
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	- 55 ~ 150	°C

$\textbf{Electrical Characteristics} \ \textbf{T}_{\text{C}} = 25 ^{\circ} \textbf{C} \ \text{unless otherwise noted}$

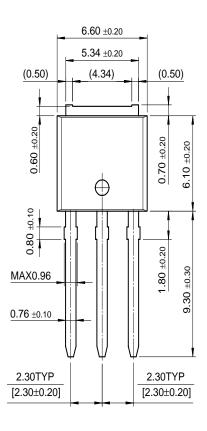
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -10 \text{mA}, I_B = 0$	- 50			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = -50V, I_{E} = 0$			- 1	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$			- 1	μΑ
h _{FE1}	DC Current Gain	$V_{CE} = -2V, I_{C} = -0.5A$	70		240	
h_{FE2}		$V_{CE} = -2V, I_{C} = -1.5A$	40			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	$I_C = -1A, I_B = -0.05A$			- 0.5	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	$I_C = -1A, I_B = -0.05A$			- 1.2	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
t _{ON}	Turn ON Time	$V_{CC} = -30, I_{C} = -1A$		0.1		μs
t _{STG}	Storage Time	$I_{B1} = -I_{B2} = -0.05A$		1		μs
t _F	Fall Time	$R_L = 30\Omega$		0.1		μs

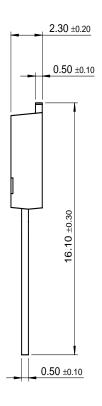
h_{FE} Classification

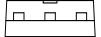
Classification	0	Υ	
h _{FE1}	70 ~ 140	120 ~ 240	

Package Demensions

I-PAK







Dimensions in Millimeters

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