

Excellent Integrated System Limited

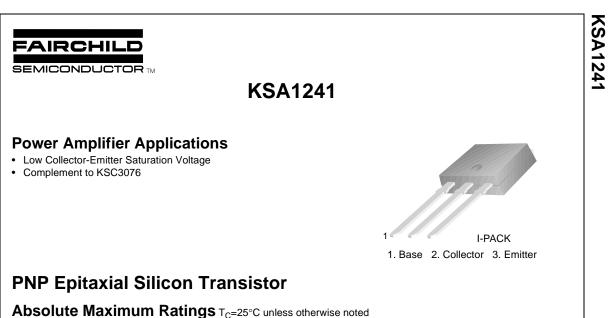
Stocking Distributor

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Fairchild Semiconductor KSA1241YTU

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>





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	A
l _C	Collector Current	- 2	A
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

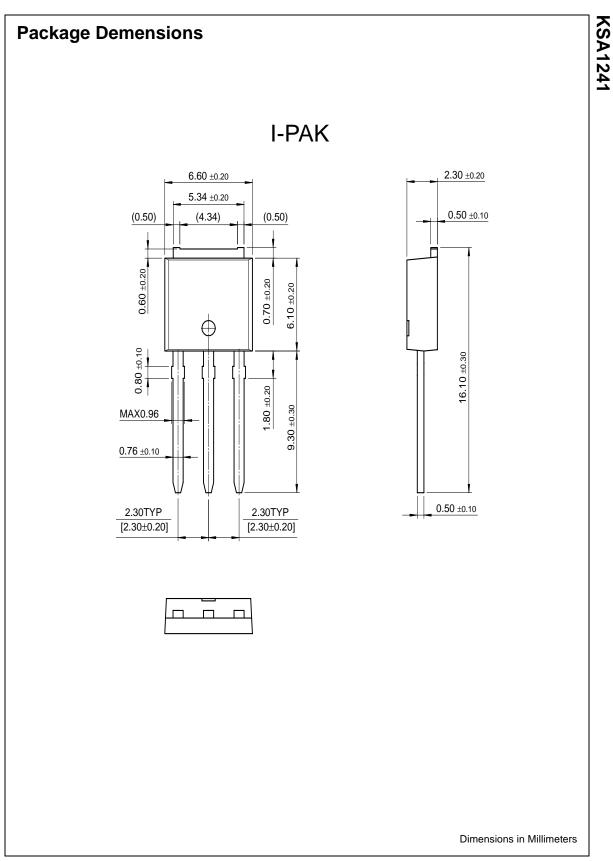
Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = - 10mA, I _B = 0	- 50			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = -50V, I_E = 0$			- 1	μA
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -5V, I_{C} = 0$			- 1	μA
h _{FE1} h _{FE2}	DC Current Gain	$V_{CE} = -2V, I_C = -0.5A$ $V_{CE} = -2V, I_C = -1.5A$	70 40		240	
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	Y	
h _{FE1}	70 ~ 140	120 ~ 240	





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