FAIRCHILD SEMICONDUCTOR® KSA1242 Medium Power Amplifier Camera Flash Applications • hFE = 100~320 (VCE = -2V, IC = -0.5V) • hFE = 70 (Min.) (VCE = -2V, IC = -4A) • Low Saturation Voltage: VCE(sat) = -1V (Max.)

1 I-PAK 1. Base 2. Collector 3. Emitter KSA1242

PNP Epitaxial Silicon Transistor

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

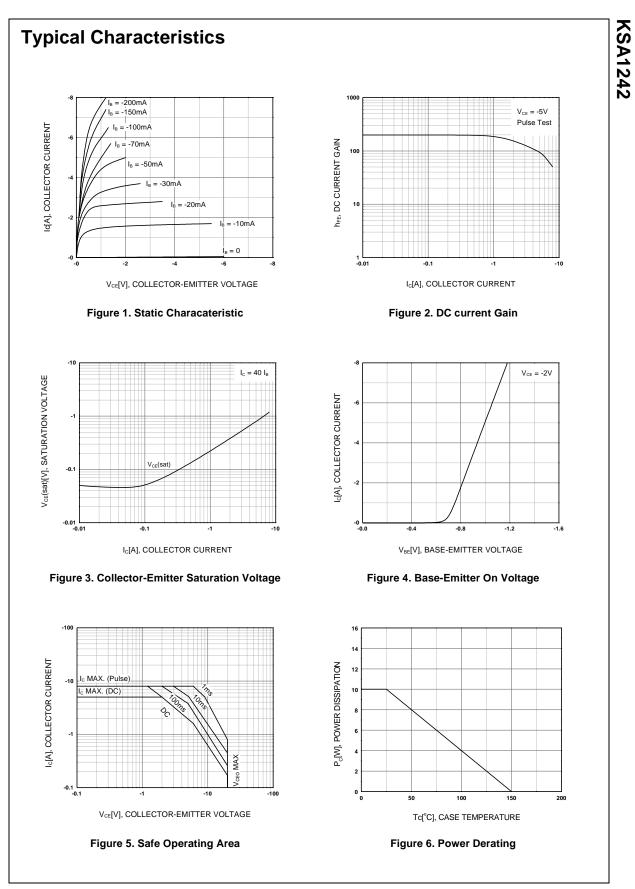
Symbol	Parameter	Ratings	Units V	
V _{CBO}	Collector-Base Voltage	- 35		
V _{CEO}	Collector-Emitter Voltage	- 20	V	
V _{EBO}	Emitter-Base Voltage	- 8	V	
I _C	Collector Current (DC) - 5		A	
I _{CP}	Collector Current (Pulse)	- 8	A	
P _C	Collector Dissipation (T _C =25°C)	10	W	
TJ	Junction Temperature	Junction 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	- 20			V
BV _{EBO}	Emitter-Base Breakdown Voltage	$I_{E} = -1 mA, I_{C} = 0$	- 8			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = -35V, I_E = 0$			- 100	μΑ
I _{EBO}	Emitter Cut-off Current	$V_{EB} = -8V, I_{C} = 0$			- 100	μΑ
h _{FE1}	DC Current Gain	$V_{CE} = -2V, I_{C} = -0.5A$	100		320	
h _{FE2}		$V_{CE} = -2V, I_{C} = -4A$	70			
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = - 4A, I _B = - 0.1A			- 1	V
V _{BE} (on)	Base-Emitter On Voltage	$V_{CE} = -2V, I_{C} = -4A$			- 1.5	V
f _T	Current Gain Bandwidth Product	V _{CE} = - 2V, I _C = - 0.5A		180		MHz
C _{ob}	Collector Output Capacitance	V _{CB} = - 10V, f = 1MHz		50		pF

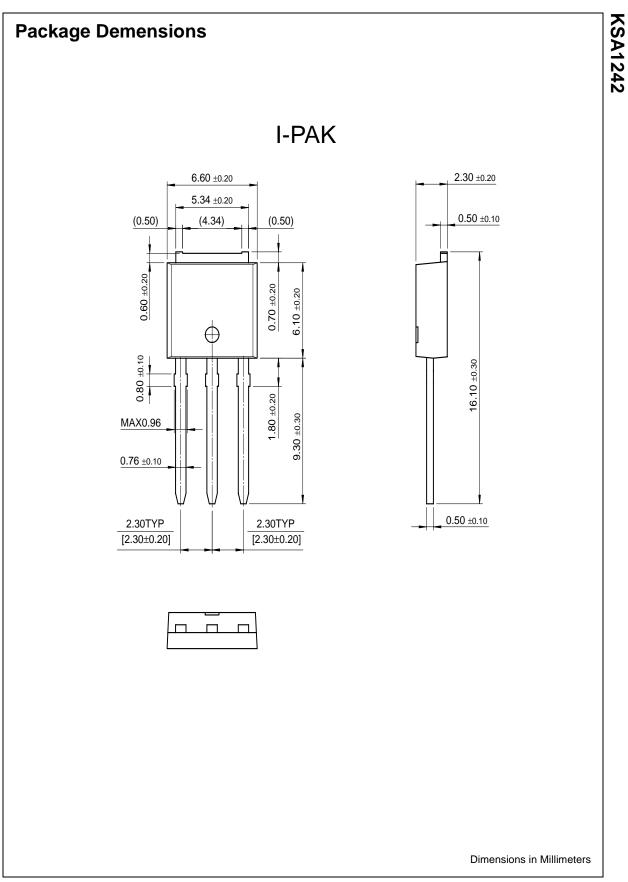
h_{FE} Classification

Classification	0	Y
h _{FE1}	100 ~ 200	160 ~ 320



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Product status/pricing/packaging

Product	Product status	Pricing*	Inventory check & ordering	Package type	Leads	Packing method
KSA1242YTU	Full Production	\$0.393	Purchase	TO-251(IPAK)	3	RAIL
KSA1242OTU	Full Production	\$0.393	Purchase	TO-251(IPAK)	3	RAIL

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