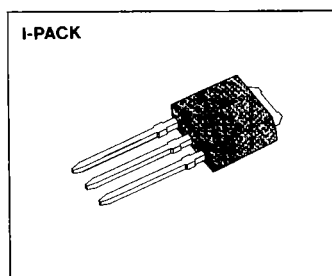


PNP Transistor KSA1242 datasheet

CAMERA FLASH APPLICATIONS MEDIUM POWER AMPLIFIER

- $h_{FE} = 100 \sim 320$ ($V_{CE} = -2V$, $I_C = -0.5V$)
- $h_{FE} = 70$ (Min) ($V_{CE} = -2V$, $I_C = -4A$)
- Low Saturation Voltage: $V_{CE(sat)} = -1V$ (Max)



ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector Base Voltage	V_{CBO}	-35	V
Collector Emitter Voltage	V_{CEO}	-20	V
Emitter Base Voltage	V_{EBO}	-8	V
Collector Current (DC)	I_C	-5	A
Collector Current (Pulse)	I_C	-8	A
Collector Dissipation (Tc=25°C)	P_C	10	W
Junctin Temperature	T_j	150	°C
Storage Temperature	T_{stg}	-55~150	°C

ELECTRICAL CHARACTERISTICS (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Emitter Breakdown Voltage	BV_{CEO}	$I_C = -10mA$, $I_B = 0$	-20			V
Emitter Base Breakdown Voltage	BV_{EBO}	$I_E = -1mA$, $I_C = 0$	-8			V
Collector Cutoff Current	I_{CBO}	$V_{CB} = -35V$, $I_E = 0$			-100	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB} = -8V$, $I_C = 0$			-100	μA
DC Current Gain	h_{FE1}	$V_{CE} = -2V$, $I_C = -0.5A$	100		320	
	h_{FE2}	$V_{CE} = -2V$, $I_C = -4A$	70			
Collector Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -4A$, $I_B = -0.1A$			-1	V
Base Emitter On Voltage	$V_{BE(on)}$	$V_{CE} = -2V$, $I_C = -4A$			-1.5	V
Current Gain Bandwish Product	f_T	$V_{CE} = -2V$, $I_C = 0.5A$		180		MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V$, $f = 1MHz$		50		pF

$h_{FE}(1)$ CLASSIFICATION

Classification	O	Y
h_{FE1}	100~200	160~320

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