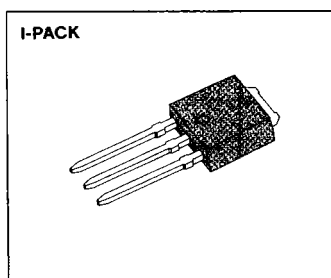


# PNP Transistor KSA1244 datasheet

## HIGH CURRENT SWITCHING

- Low Collector Emitter Saturation Voltage
- Complement to KSC3074



## ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

Characteristic	Symbol	Rating	Unit
Collector Base Voltage	V <sub>CBO</sub>	-60	V
Collector Emitter Voltage	V <sub>CEO</sub>	-50	V
Emitter Base Voltage	V <sub>EBO</sub>	-5	V
Base Current	I <sub>B</sub>	-1	A
Collector Current	I <sub>C</sub>	-5	A
Collector Dissipation (T <sub>c</sub> =25°C)	P <sub>C</sub>	1	W
Collector Dissipation (T <sub>c</sub> =25°C)	P <sub>C</sub>	20	W
Junction Temperature	T <sub>j</sub>	150	°C
Storage Temperature	T <sub>stg</sub>	-55~150	°C

## ELECTRICAL CHARACTERISTICS (Ta=25°C)

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Emitter Breakdown Voltage	BV <sub>CEO</sub>	I <sub>C</sub> = -10mA, I <sub>B</sub> = 0	-50			V
Collector Cutoff Current	I <sub>CBO</sub>	V <sub>CB</sub> = -50V, I <sub>E</sub> = 0			-1	μA
Emitter Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> = -5V, I <sub>C</sub> = 0			-1	μA
DC Current Gain	h <sub>FE1</sub>	V <sub>CE</sub> = -1V, I <sub>C</sub> = -1A	70		240	
	h <sub>FE2</sub>	V <sub>CE</sub> = -1V, I <sub>C</sub> = -3A	30			
Collector Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> = -3A, I <sub>B</sub> = -0.15A			-0.5	V
Base Emitter Saturation Voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> = -3V, I <sub>C</sub> = -0.15A		-0.9	-1.2	V
Current Gain Bandwidth Product	f <sub>T</sub>	V <sub>CE</sub> = -4V, I <sub>C</sub> = -1A		60		MHz
Output Capacitance	C <sub>ob</sub>	V <sub>CB</sub> = -10V, f = 1MHz		170		pF
Turn On Time	t <sub>on</sub>	V <sub>CC</sub> = -30V		0.1		μs
Storage Time	t <sub>stg</sub>	-1 <sub>B1</sub> = I <sub>B2</sub> = 0.15A		1		μs
Fall Time	t <sub>f</sub>			0.1		μs

## h<sub>FE</sub>(1) CLASSIFICATION

Classification	O	Y
h <sub>FE1</sub>	70~140	120~240

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