

### KSB564A TRANSISTOR (PNP)

#### FEATURES

Power dissipation

$$P_{CM}: 0.8 \text{ W (Tamb=25°C)}$$

Collector current

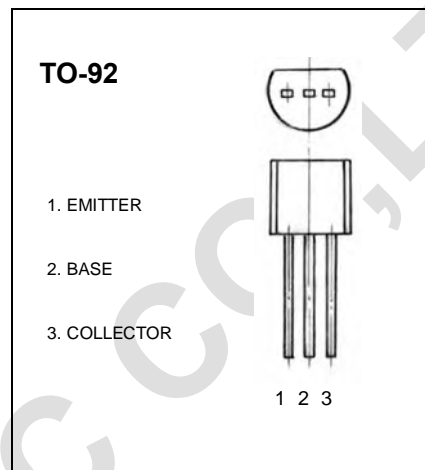
$$I_{CM}: -1 \text{ A}$$

Collector-base voltage

$$V_{(BR)CBO}: -30 \text{ V}$$

Operating and storage junction temperature range

$$T_J, T_{stg}: -55°C \text{ to } +150°C$$



#### ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C = -100\mu A, I_E = 0$	-30		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C = -10 \text{ mA}, I_B = 0$	-25		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E = -100\mu A, I_C = 0$	-5		V
Collector cut-off current	$I_{CBO}$	$V_{CB} = -30V, I_E = 0$		-0.1	$\mu A$
DC current gain	$h_{FE}$	$V_{CE} = -1V, I_C = -0.1A$	70	400	
Collector-emitter saturation voltage	$V_{CEsat}$	$I_C = -1A, I_B = -0.1A$		-0.5	V
Base-emitter saturation voltage	$V_{BEsat}$	$I_C = -1A, I_B = -0.1A$		-1.2	V
Transition frequency	$f_T$	$V_{CE} = -6V, I_C = -10mA$	80		MHz
Output capacitance	$C_{ob}$	$V_{CE} = -6V, I_E = 0, f = 1 \text{ MHz}$		25	pF

#### CLASSIFICATION OF $h_{FE}$

Rank	O	Y	G
Range	70-140	120-240	200-400