

TO-92S Plastic-Encapsulate Transistors

KSA1175 TRANSISTOR (PNP)

FEATURES

- Collector-Base Voltage
- Complement to KSC2785

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current (DC)	-0.15	A
P _C	Collector Power Dissipation	0.25	W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55-150	°C

TO-92S

1. EMITTER
2. COLLECTOR
3. BASE



ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-0.1mA, I _E =0	-60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-10mA, I _B =0	-50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-10μA, I _C =0	-5			V
Collector cut-off current	I _{CBO}	V _{CB} =-60V, I _E =0			-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} =-5V, I _C =0			-0.1	μA
DC current gain	h _{FE}	V _{CE} =-6V, I _C =-1mA	40		700	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-100mA, I _B =-10mA			-0.3	V
Base-emitter voltage	V _{BE}	V _{CE} =-6V, I _C =-1mA	-0.5		-0.8	V
Transition frequency	f _T	V _{CE} =-6V, I _C =-10mA	50			MHz
Collector output capacitance	C _{ob}	V _{CB} =-10V, I _E =0, f=1MHz		2.8		pF
Noise figure	NF	V _{CE} =-6V, I _C =-0.3mA, f=100HZ, R _g =10KΩ			20	dB

CLASSIFICATION OF h_{FE}

Rank	R	O	Y	G	L
Range	40-80	70-140	120-240	200-400	350-700