

TRANSISTOR (PNP)
Plastic-Encapsulate Transistor

FEATURES

- Power dissipation
 $P_{CM}: 0.2W$ ($T_{amb}=25^{\circ}C$)

MARKING : AKQ , AKR

SOT-23-3L

- BASE
- EMITTER
- COLLECTOR

Unit:mm

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS
 Ratings at 25°C ambient temperature unless otherwise specified.

MAXIMUM RATINGS

Parameters	Symbols	Value	UNITS
Collector-Base Voltage	V_{CBO}	-80	V
Collector-Emitter Voltage	V_{CEO}	-80	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current - Continuous	I_C	-500	mA
Junction and Storage Temperature	T_J, T_{stg}	-55-150	°C

ELECTRICAL CHARACTERISTICS

Parameters	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=-50\mu A, I_E=0$	-80			V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-2mA, I_B=0$	-80			V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=-50\mu A, I_C=0$	-5			V
Collector Cut-Off Current	I_{CBO}	$V_{CB}=-50V, I_E=0$			-0.5	μA
Emitter Cut-Off Current	I_{EBO}	$V_{EB}=-4V, I_C=0$			-0.5	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-3V, I_C=-100mA$	120		390	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-500mA, I_B=-50mA$			-0.5	V
Transition Frequency	f_T	$V_{CE}=-10V, I_C=-50mA$		180		MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$		11		pF

CLASSIFICATION OF $h_{FE(1)}$

Rank	Q	R
Range	120-270	180-390

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