



Transys

Electronics

LIMITED

TO-92 Plastic-Encapsulated Transistors

2N4401

TRANSISTOR (NPN)

FEATURES

Power dissipation

P_{CM} : 0.625 W (Tamb=25°C)

Collector current

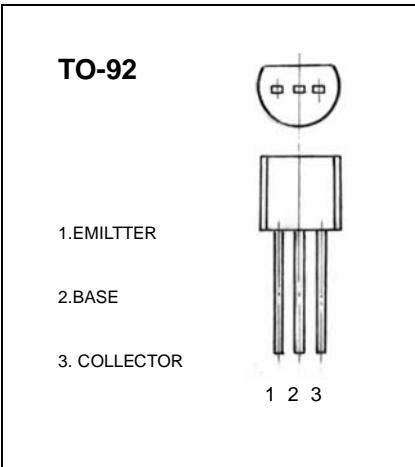
I_{CM} : 0.6 A

Collector-base voltage

$V_{(BR)CBO}$: 60 V

Operating and storage junction temperature range

T_J, T_{stg} : -55°C to +150°C



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

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	60		V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	40		V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu A, I_C=0$	6		V
Collector cut-off current	I_{CBO}	$V_{CB}=50 V, I_E=0$		0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE}=35 V, I_B=0$		0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=5V, I_C=0$		0.1	μA
DC current gain	h_{FE}	$V_{CE}=1 V, I_C= 150mA$	100	300	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=150 mA, I_B=15mA$		0.4	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C= 150 mA, I_B=15mA$		0.95	V
Transition frequency	f_T	$V_{CE}= 10V, I_C= 20mA$ $f = 100MHz$	250		MHz