

台源国际股份有限公司

DAYA INTERNATIONAL CO., LTD

TO-92 Plastic-Encapsulate Transistors

2N5551

2N5551 TRANSISTOR (NPN)

FEATURES

Power dissipation

P_{CM} : 0.625 W ($T_{amb}=25^{\circ}C$)

Collector current

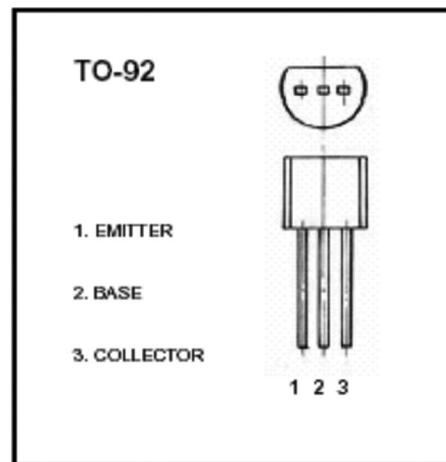
I_{CM} : 0.6 A

Collector-base voltage

$V_{(BR)CBO}$: 180 V

Operating and storage junction temperature range

T_J, T_{stg} : -55°C to +150°C



ELECTRICAL CHARACTERISTICS ($T_{amb}=25^{\circ}C$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C= 100 \mu A, I_E=0$	180			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C= 100 \mu A, I_B=0$	160			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E= 100 \mu A, I_C=0$	6			V
Collector cut-off current	I_{CBO}	$V_{CE}= 180 V, I_E=0$			0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB}= 4 V, I_C=0$			0.1	μA
DC current gain	$h_{FE}(1)$	$V_{CE}= 5 V, I_C= 1 mA$	80			
	$h_{FE}(2)$	$V_{CE}= 5 V, I_C= 10 mA$	80		250	
	$h_{FE}(3)$	$V_{CE}= 5 V, I_C= 50 mA$	50			
Collector-emitter saturation voltage	V_{CEsat}	$I_C= 50 mA, I_B= 5 mA$			0.5	V
Base-emitter saturation voltage	V_{BESat}	$I_C= 50 mA, I_B= 5 mA$			1	V
Transition frequency	f_T	$V_{CE}= 5 V, I_C= 10 mA, f = 30 MHz$	80			MHz

CLASSIFICATION OF $h_{FE}(2)$

Rank	A	B	C
Range	80-160	120-180	150-250