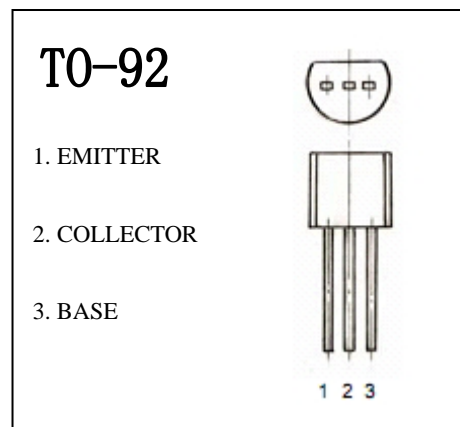




8050SS TRANSISTOR(NPN)

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

Symbol	Parameter	Value	Units
VCBO	Collector-Base Voltage	40	V
VCEO	Collector-Emitter Voltage	25	V
VEBO	Emitter-Base Voltage	5	V
IC	Collector Current	1.5	A
PC	Collector Power Dissipation	1000	mW
Tj	Junction Temperature	150	°C
Tstg	Storage Temperature	-55~150	°C



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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V(BR)CBO	IC=100uA, IE=0	40			V
Collector-emitter breakdown voltage	V(BR)CEO	IC=1mA, IB=0	25			V
Emitter-base breakdown voltage	V(BR)EBO	IC=100uA, IC=0	5			V
Collector cut-off current	ICBO	VCB=40V, IE=0			0.1	μA
Emitter cut-off current	IEBO	VEB=5V, IC=0			0.1	μA
DC current gain	HFE(1)	Vce=1V, Ic=100mA	85		400	
	HFE(2)	Vce=6V, Ic=800mA	40			
Collector-emitter saturation voltage	VCE(sat)	IC=800mA, IB=80mA			0.5	V
Base-emitter saturation voltage	VBE(sat)	IC=800mA, IB=80mA			1.2	V
Base-emitter voltage	VBE	VCE=1V, IC=10mA			1.0	V
Transition frequency	fT	VCE=10V, IC=50Ma, f=30MHZ	100			MHz