

FEATURES

Complimentary to S8550

MARKING: J3Y

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

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	40	V
Collector-Emitter Voltage	V_{CEO}	25	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current -Continuous	I_C	0.5	A
Collector Power Dissipation	Pc	0.3	W
Junction Temperature	T_J	150	$^{\circ}$
Storage Temperature	Tstg	-55 to +150	$^{\circ}$

S8050 (NPN)



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

		_				
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	VCBO	IC= 100µA, IE=0	40			v
Collector-emitter breakdown voltage	VCEO	IC=1mA, IB=0	25			V
Emitter-base breakdown voltage	VEBO	IE=100μA, IC=0	5			v
Collector cut-off current	ICBO	V _{CB} =40 V , I _E =0			0.1	uA
Collector cut-off current	ICEO	V _{CB} =20V , I _E =0			0.1	μА
Emitter cut-off current	IEBO	V _{EB} = 5V , I _C =0			0.1	μΑ
DC current gain	HFE(1)	V _{CE} =1V, I _C = 50mA	120		350	
	HFE(2)	VCE=1V, IC= 500mA	50			
Collector-emitter saturation voltage	VCE(sat)	I _C =500 mA, I _B = 50mA			0.6	v
Base-emitter saturation voltage	VBE(sat)	IC=500 mA, IB= 50mA			1.2	V
Transition frequency	fT	VCE=6V, IC= 20mA f=30MHz	150			MHz

CLASSIFICATION OF h_{FE}

Rank	L	Н	
Range	120-200	200-350	





\$8050 Typical Characteristics









