

深圳市晶泰源电子有限公司

S8050LTI(0.5A) TRANSISTOR(NPN)

FEATURES

MARKING: J3Y

Power dissipation

P_{CM} : 0.3W ($T_{amb}=25^{\circ}C$)

Collector current

I_{CM} : 0.5 A

Collector-base voltage

$V_{(BR)CBO}$: 40 V

Operating and storage junction temperature range

T_J, T_{stg} : $-55^{\circ}C$ to $+150^{\circ}C$

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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=100\mu A, I_B=0$	25			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu A, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=40V, I_E=0$			0.2	μA
Collector cut-off current	I_{CEO}	$V_{CE}=20V, I_B=0$			0.2	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=5V, I_C=0$			0.2	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=1V, I_C=50mA$	120		350	
	$h_{FE(2)}$	$V_{CE}=1V, I_C=500mA$	50			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=500mA, I_B=50mA$			0.6	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=500mA, I_B=5mA$			1.2	V
Transition frequency	f_T	$V_{CE}=6V, I_E=20mA$ $f=30MHz$	100			MHz

CLASSIFICATION OF $h_{FE(1)}$

Rank		
Range	120~200	200~350

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