

自主封測 品質把控 售後保障

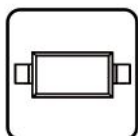
WEB | WWW.TDSEMIC.COM



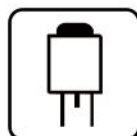
電源管理



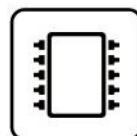
顯示驅動



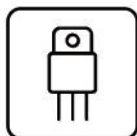
二三極管



LDO穩壓器



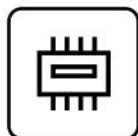
觸摸芯片



MOS管



運算放大器



存儲芯片



MCU



串口通信

S9013

產品規格說明書

SOT-23 Plastic-Encapsulate Transistors

S9013 TRANSISTOR (NPN)

FEATURES

Complimentary to S9012

Collector current: $I_C=0.5A$

SOT-23

1. BASE
2. EMITTER
3. COLLECTOR



MARKING: J3

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

Symbol (符号)	Parameter (参数名称)	Value (额定值)	Units (单位)
VCBO	Collector-Base Voltage (集电极-基极电压)	40	V
VCEO	Collector-Emitter Voltage (集电极-发射极电压)	25	V
VEBO	Emitter-Base Voltage (发射极-基极电压)	5	V
IC	Collector Current -Continuous (集电极电流)	0.5	A
PC	Collector Power Dissipation (耗散功率)	0.3	W
Tj	Junction Temperature (结温)	150	°C
Tstg	Storage Temperature (储存温度)	-55-150	°C

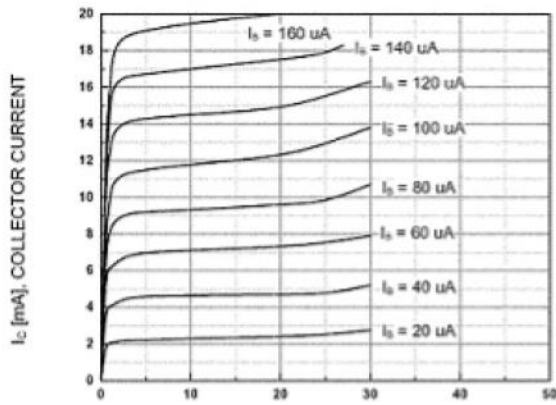
ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter (参数名称)	Symbol (符号)	Test conditions (测试条件)	MIN (最小值)	TYP (典型值)	MAX (最大值)	UNIT (单位)
Collector-base breakdown voltage 集电极-基极击穿电压	V(BR)CBO	IC= 100μA, IE=0	40			V
Collector-emitter breakdown voltage 集电极-发射极击穿电压	V(BR)CEO	IC= 1mA, IB=0	25			V
Emitter-base breakdown voltage 发射极-基极击穿电压	V(BR)EBO	IE=100μA, IC=0	5			V
Collector cut-off current 集电极-基极截止电流	ICBO	VCB=30 V, IE=0			1	μA
Collector cut-off current 集电极-发射极截止电流	ICEO	VCE=25V, IB=0			10	μA
Emitter cut-off current 发射极-基极截止电流	IEBO	VEB=5V, IC=0			1	μA
DC current gain 直流电流增益	hFE	VCE=1V, IC= 50mA	80		400	
Collector-emitter saturation voltage 集电极-发射极饱和压降	VCE(sat)	IC=500mA, IB= 50mA			0.5	V
Base-emitter saturation voltage 发射极-基极饱和压降	VBE(sat)	IC=500mA, IB= 50mA			1.2	V

CLASSIFICATION OF hFE

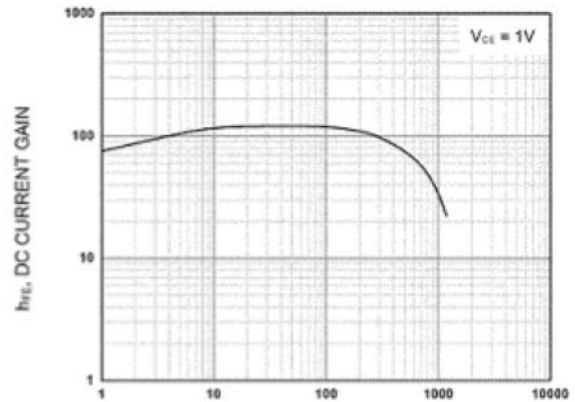
Range	80-100	100-200	200-400	400-600
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Typical Characteristics



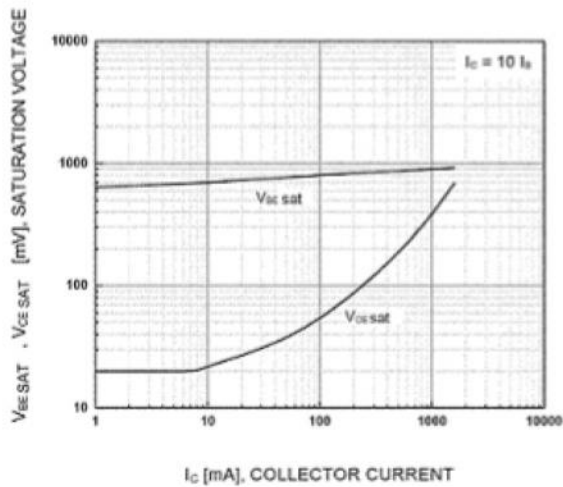
V_{CE} [V], COLLECTOR-EMITTER VOLTAGE

Static Characteristic



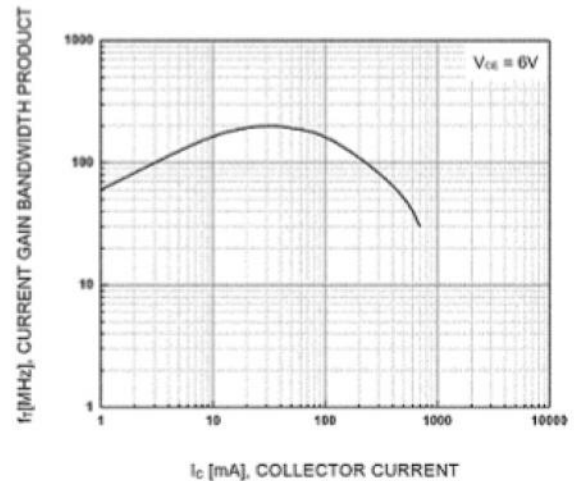
I_C [mA], COLLECTOR CURRENT

DC current Gain



I_C [mA], COLLECTOR CURRENT

**Base-Emitter Saturation Voltage
Collector-Emmitter Saturation Voltage**



I_C [mA], COLLECTOR CURRENT

Current Gain Bandwidth Product