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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

C1815-TD

產品規格說明書



FEATURES:

Collector Current: Ic=150mA

※ Power Dissipation

SOT-23 1.BASE 2.EMITTER 3.COLLECTOR



MARKING:HF

MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	VCBO	60	V
Collector-Emitter Voltage	VCEO	50	V
Emitter-Base Voltage	VEBO	5	V
Collector Current	IC	150	mA
Collector Power Dissipation	PC	200	mW
Thermal Resistance From Junction To Ambient	RΘJA	625	°C/W
Junction Temperature	Tj	150	°C
Storage Temperature	Tstg	-55∼+150	°C

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

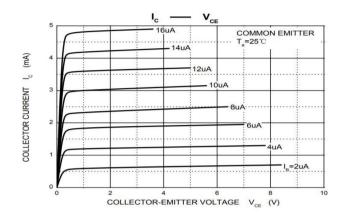
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Parameter	Symbol	Test Condition	Min	Тур	Max	Unit
Collector-base breakdown voltage	V(BR)CBO	IC= 100μA, IE=0	60			V
Collector-emitter breakdown voltage	V(BR)CEO	IC= 0.1mA, IB=0	50			V
Emitter-base breakdown voltage	V(BR)EBO	IE= 100μA, IC=0	5			V
Collector cut-off current	ICBO	VCB= 60 V , IE=0			0.1	μA
Emitter cut-off current	IEBO	VEB= 5V , IC=0			0.1	μA
F0	hFE	VCE=6V, IC= 2mA	130		400	
DC current gain	hFE	VCE=5V, IC= 10mA	80			
Collector-emitter saturation voltage	VCE(sat)	IC=100 mA, IB= 10mA			0.25	V
Base-emitter saturation voltage	VBE(sat)	IC=100 mA, IB= 10mA			1	V
Transition frequency	fT	VCE=10V, IC= 1mA f=30MHz	80			MHz

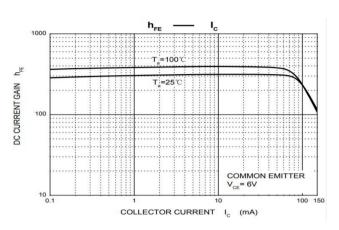
CLASSIFICATION OF hFE

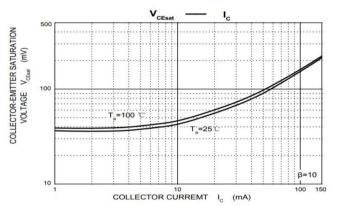
HEF	200-400		
Rank	L	н	
Range	130-200	200-400	
MARKING		HF	

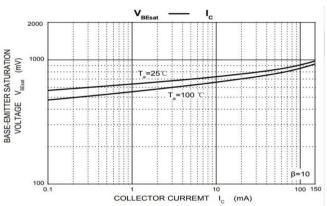


Typical Electrical and Thermal Characteristics



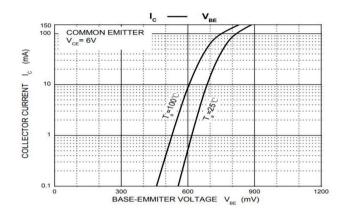


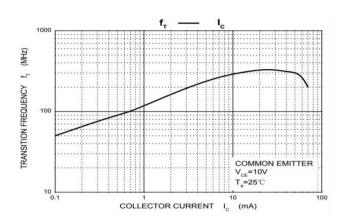


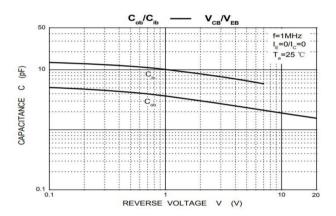


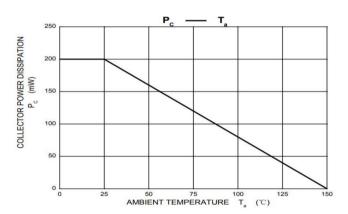


Typical Electrical and Thermal Characteristics



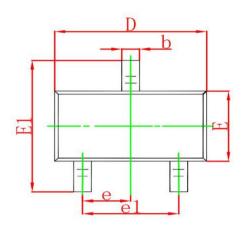


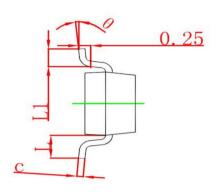


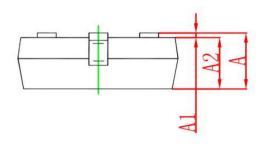




SOT-23 Package Outline Dimesions







Symbol Dimensions In Mil		imeters Dimension		s In Inches	
Symbol	Min.	Max.	Min.	Max.	
Α	0.900	1.150	0.035	0.045	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.050	0.035	0.041	
b	0.300	0.500	0.012	0.020	
С	0.080	0.150	0.003	0.006	
D	2.800	3.000	0.110	0.118	
E	1.200	1.400	0.047	0.055	
E1	2.250	2.550	0.089	0.100	
е	0.950 TYP		0.037 TYP		
e1	1.800	2.000	0.071	0.079	
L	0.550 REF	0.550 REF		0.022 REF	
L1	0.300	0.500	0.012	0.020	
θ	0°	8°	0°	8°	