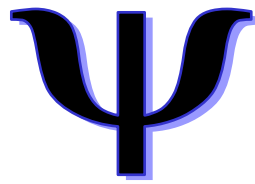


漳州市源鸿海电子有限公司



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			漳州市源鸿海电子有限公司		
核准	审核	送样者	核准	审核	送样者

工厂地址：龙海市浮宫镇霞圳村 电话：0592-2392579 传真：0592-2212361 手机：13285975649

# 漳州市源鸿海电子有限公司

ZHANG ZHOU YANG HONG HAI ELECTRONIC LIMITED

## MJE13003D TRANSISTOR(NPN)

### 1:FEATURES

Power switching applications

### 2:MAXIMUM RATINGS (T<sub>A</sub>=25°C unless otherwise noted)

symbol	parameter	value	units
V <sub>cbo</sub>	Collector-Base Voltage	600	V
V <sub>ceo</sub>	Collector-Emitter Voltage	400	V
V <sub>ebo</sub>	Emitter-Base Voltage	9	V
I <sub>c</sub>	Collector Current-Continuous (DC)	0.75	A
P <sub>c</sub>	Collector Power Dissipation	30	W
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>stg</sub>	Storage Temperature	-55-150	°C

### 3:ELECTRICAL CHARACTERISTICS (T<sub>amb</sub>=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V <sub>(BR)cbo</sub>	I <sub>C</sub> =5mA I <sub>E</sub> =0	600			V
Collector-emitter breakdown voltage	V <sub>(BR)ceo</sub>	I <sub>C</sub> =10mA I <sub>B</sub> =0	400			V
Emitter-base breakdown voltage	V <sub>(BR)ebo</sub>	I <sub>E</sub> =2mA I <sub>C</sub> =0	9			V
Collector cut-off Current	I <sub>cbo</sub>	V <sub>cb</sub> =600V I <sub>E</sub> =0			10	uA
Collector cut-off Current	I <sub>ceo</sub>	V <sub>ce</sub> =400V I <sub>B</sub> =0			10	uA
Emitter cut-off Current	I <sub>ebo</sub>	V <sub>eb</sub> =9V I <sub>C</sub> =0			10	uA
DC Current gain	h <sub>EF(1)</sub>	V <sub>ce</sub> =5V I <sub>C</sub> =200mA	10		40	
Collector-emitter saturation voltage	V <sub>CE(sat)</sub>	I <sub>C</sub> =300mA I <sub>B</sub> =60mA			0.8	v
Base -emitter saturation voltage	V <sub>BE(sat)</sub>	I <sub>C</sub> =300mA I <sub>B</sub> =60mA			1.2	v
Transition frequency	f <sub>T</sub>	V <sub>ce</sub> =10V I <sub>C</sub> =100mA f=1MHZ	5			MHZ
Fall time	t <sub>f</sub>	V <sub>CC</sub> =5V , I <sub>C</sub> =0.25A			0.8	uS
Storage time	t <sub>s</sub>	UI9600 I <sub>C</sub> =100mA	1.5		5	uS

### 4:CLASSIFICATION OF h<sub>EF(1)</sub>

Rank								
Range	8-15	15-18	18-20	20-23	23-25	25-28	28-30	30-40

### 5: PIN ARRAY

1.BASE 2.COLLECTOR 3.EMITTER

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