



# 《风光欣》技术资料

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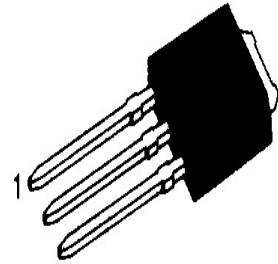
## 2SD1802

### NPN EPITAXIAL SILICON TRANSISTOR

\*Complement to 2SB1202

#### ABSOLUTE MAXIMUM RATINGS(Ta=25 )

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V <sub>CBO</sub>	60	V
Collector-Emitter Voltage	V <sub>CEO</sub>	50	V
Emitter -Base Voltage	V <sub>EBO</sub>	6	V
Collector Current (DC)	I <sub>c</sub>	3	A
Collector Current (Pulse)	I <sub>cp</sub>	6	A
Collector Dissipation	P <sub>c</sub>	1	W
Junction Temperature	T <sub>J</sub>	150	
Storage Temperature	T <sub>STG</sub>	-55 ~150	



SOT-251

1.Base 2.Collector 3.Emitter

#### ELECTRICAL CHARACTERISTICS(Ta=25 )

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Cutoff Current	I <sub>CBO</sub>	V <sub>CB</sub> = 40V,I <sub>E</sub> =0			1	μ A
Emitter-Cutoff Current	I <sub>EBO</sub>	V <sub>EB</sub> = 4V,I <sub>C</sub> =0			1	μ A
*DC Current Gain	h <sub>FE1</sub>	V <sub>CE</sub> = 2V,I <sub>c</sub> = 100mA	100		560	
	h <sub>FE2</sub>	V <sub>CE</sub> = 2V,I <sub>c</sub> = 4A	35			
Current Gain-Bandwidth Product	f <sub>T</sub>	V <sub>CE</sub> = 10V,I <sub>C</sub> =50mA		150		MHZ
Output Capacitance	C <sub>OB</sub>	V <sub>CB</sub> = 10V,I <sub>E</sub> =0,f=1MHZ		25		pF
Collector-Emitter Saturation Voltage	V <sub>CE(sat)</sub>	I <sub>c</sub> = 2A,I <sub>B</sub> = 100mA		190	500	mV
Base-Emitter Saturation Voltage	V <sub>BE(sat)</sub>	I <sub>c</sub> = 2A,I <sub>B</sub> = 100mA		0.95	1.2	V
Collector-to-Base Breakdown Voltage	V <sub>BR(CBO)</sub>	I <sub>c</sub> = 10 μ A,I <sub>E</sub> = 0	60			V
Collector-to-Emitter Breakdown Voltage	V <sub>BR(CEO)</sub>	I <sub>c</sub> = 1mA,R <sub>BE</sub> =	50			V
Emitter-to-Base Breakdown Voltage	V <sub>BR(EBO)</sub>	I <sub>E</sub> = 10 μ A,I <sub>C</sub> = 0	6			V
Turn-ON Time	t <sub>ON</sub>	See specified Test Circuit		70		ns
Storage Time	t <sub>stg</sub>	See specified Test Circuit		650		ns
Fall Time	t <sub>f</sub>	See specified Test Circuit		35		ns

#### HFE (2) CLASSIFICATION

Classification	Q	R	S	T
H <sub>FE</sub> (2)	70-140	100-200	140-280	200-400