



# 《风光欣》技术资料

\*\*\*\*\*

## C1815

## NPN TRANSISTOR

AUDIO FREQUENCY AMPLIFIER

HIGH FREQUENCY OSC

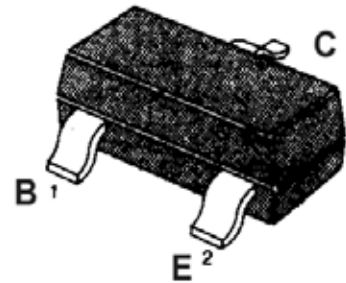
\*Complement to **A1015**

\*Collector-Base Voltage  $V_{CBO}=50V$

### ABSOLUTE MAXIMUM RATINGS( $T_A=25$ )

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CBO}$	60	V
Collector-Emitter Voltage	$V_{CEO}$	50	V
Emitter -Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_c$	150	mA
Base Current	$I_B$	50	mA
Collector Dissipation	$P_c$	200	mW
Junction Temperature	$T_J$	125	
Storage Temperature	$T_{STG}$	-55 ~150	

SOT-23



### ELECTRICAL CHARACTERISTICS( $T_A=25$ )

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Cut-off Current	$I_{CBO}$	$V_{CB}=60V, I_E=0$			0.1	$\mu A$
Emitter-Cut-off Current	$I_{EBO}$	$V_{EB}=5V, I_c=0$			0.1	$\mu A$
DC Current Gain	$h_{FE1}$	$V_{CE}=6V, I_c=2mA$	70		700	
	$h_{FE2}$	$V_{CE}=6V, I_c=150mA$	25			
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_c=100mA, I_B=10mA$		0.1	0.25	V
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_c=100mA, I_B=10mA$			1.0	V
Current Gain-Bandwidth Product	$f_T$	$V_{CE}=10V, I_c=1mA$	80			MHZ
Output Capacitance	$C_{OB}$	$V_{CB}=10V, I_E=0, f=1MHZ$		2.0	3.0	pF
Noise Figure	NF	$V_{CE}=6V, I_c=0.1mA$		1.0	1.0	dB
		$R_G=10K, F=1HZ$				

### Hfe CLASSIFICATION

Classification	O	Y	GR	L
HFE(1)	70-140	120-240	200-400	350-700