

**SOT-23**


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

**MARKING: 1AM**
**Features**

- As complementary type the PNP transistor S9015 is recommended
- Epitaxial planar die construction

**Maximum Ratings**

(Ratings at 25°C ambient temperature unless otherwise specified.)

Symbol	Parameter	Value	Units
$V_{CB0}$	Collector-Base Voltage	50	V
$V_{CE0}$	Collector-Emitter Voltage	45	V
$V_{EB0}$	Emitter-Base Voltage	5	V
$I_c$	Collector Current -Continuous	100	mA
$P_c$	Total Device Dissipation	200	mW
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	625	°C/W
$T_J$	Junction Temperature	150	°C
$T_{stg}$	Storage Temperature	-55 to +150	°C

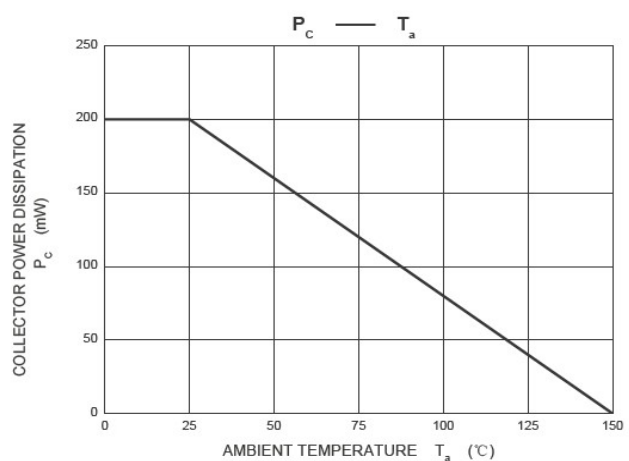
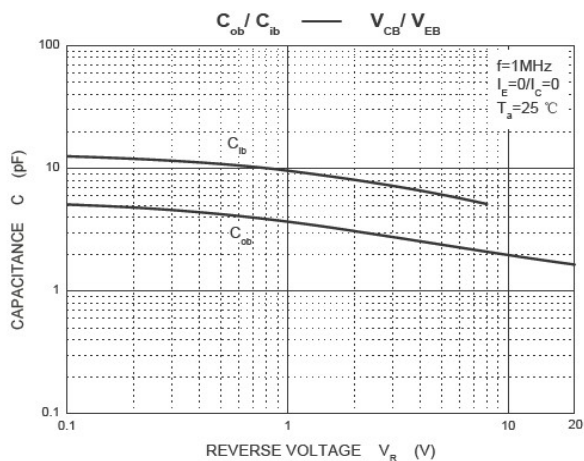
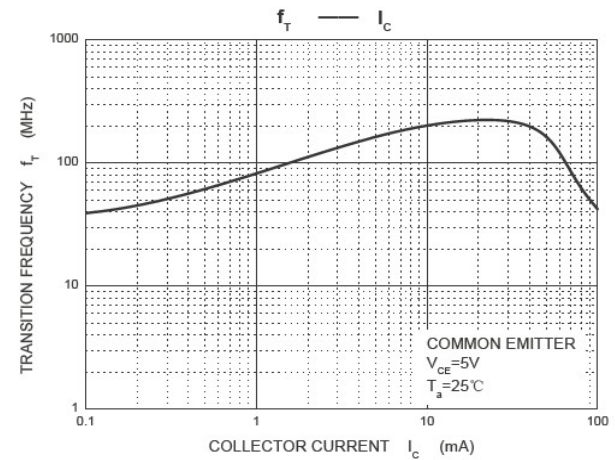
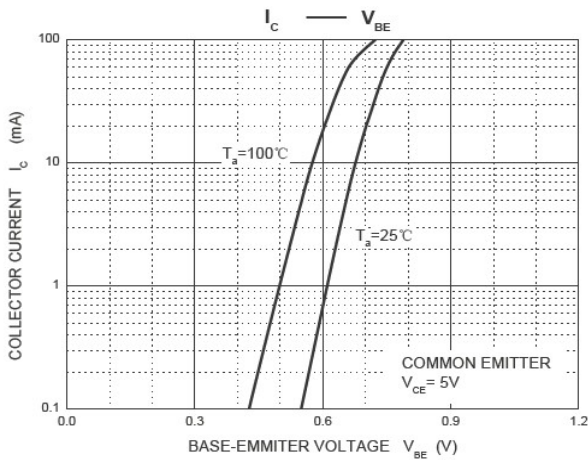
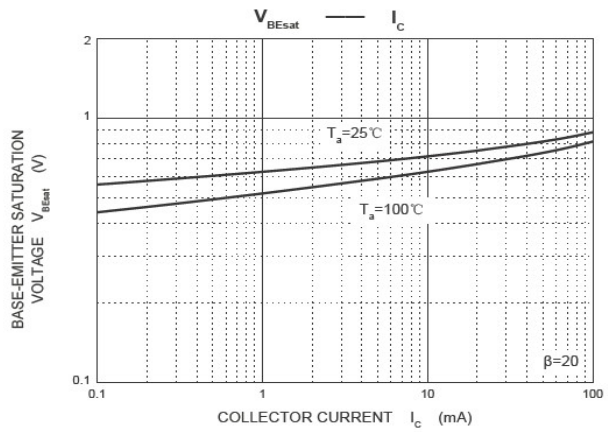
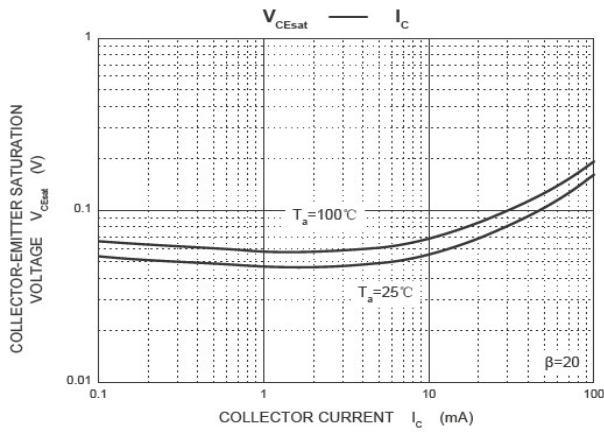
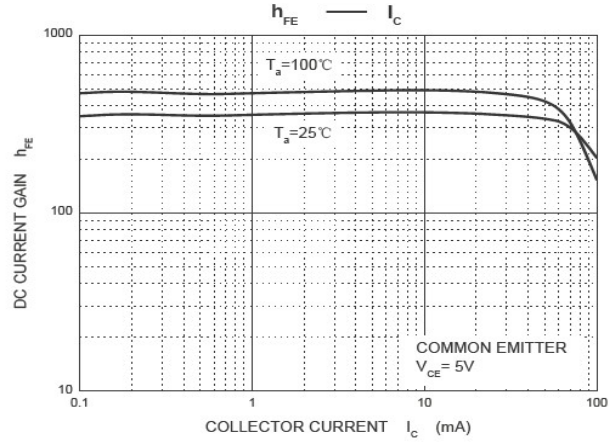
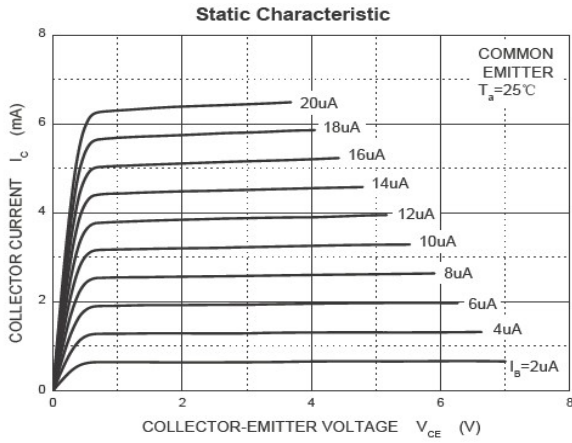
**Electrical Characteristics**

(Ratings at 25°C ambient temperature unless otherwise specified).

Parameter	Symbols	Test Condition	Limits		Unit
			Min	Max	
Collector-base breakdown voltage	$V(BR)_{CBO}$	$I_C=100\mu A, I_E=0$	50		V
Collector-emitter breakdown voltage	$V(BR)_{CEO}$	$I_C=0.1mA, I_B=0$	45		V
Emitter-base breakdown voltage	$V(BR)_{EBO}$	$I_E=100\mu A, I_C=0$	5		V
Collector cut-off current	$I_{CEO}$	$V_{CE}=35V, I_B=0$		100	nA
Collector cut-off current	$I_{CBO}$	$V_{CB}=50V, I_E=0$		100	nA
Emitter cut-off current	$I_{EBO}$	$V_{EB}=3V, I_C=0$		100	nA
DC current gain	$h_{FE}$	$V_{CE}=5V, I_C=1mA$	200	1000	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=100mA, I_B=5mA$		0.30	V
Base -emitter saturation voltage	$V_{BE(sat)}$	$I_C=100mA, I_B=5mA$		1.00	V
Transition frequency	$f_T$	$V_{CE}=5V, I_C=10mA, f=30MHz$	150		MHz

**CLASSIFICATION OF  $h_{FE(1)}$** 

RANK	L	H
RANGE	200-450	450-1000



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