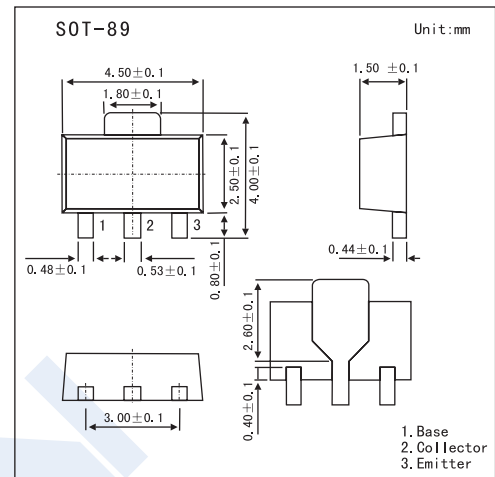


## High Voltage Drive Applications

## 2SA1368



### Features

- High Voltage  $V_{CE0} = -100V$
- High Collector Current ( $I_{CM} = -800mA$ )
- High Collector Dissipation  $P_c = 500mW$
- Small Package For Mounting
- Complementary to 2SC3438

### Absolute Maximum Ratings $T_a = 25^\circ C$

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	$V_{CB0}$	-100	V
Collector-Emitter Voltage	$V_{CE0}$	-100	V
Emitter-Base Voltage	$V_{EB0}$	-5	V
Collector Current	$I_c$	-500	mA
Peak Collector Current	$I_{CM}$	-800	mA
Collector Power Dissipation	$P_c$	500	mW
Jumction temperature	$T_j$	150	$^\circ C$
Storage temperature Range	$T_{stg}$	-55 to +150	$^\circ C$

### Electrical Characteristics $T_a = 25^\circ C$

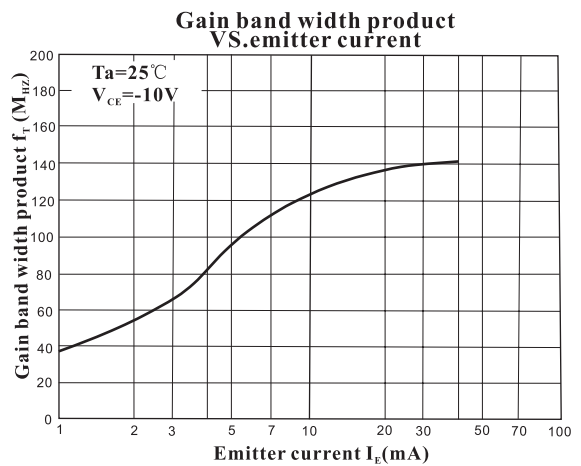
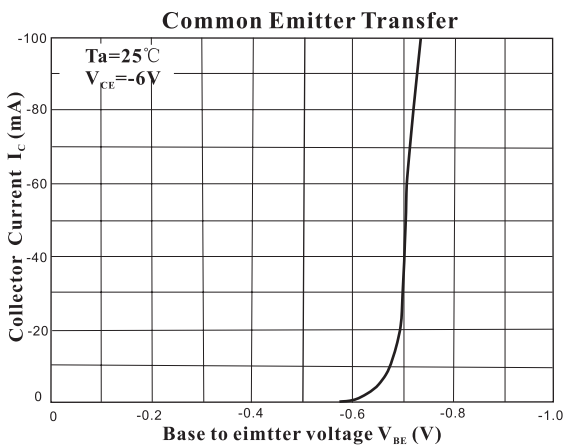
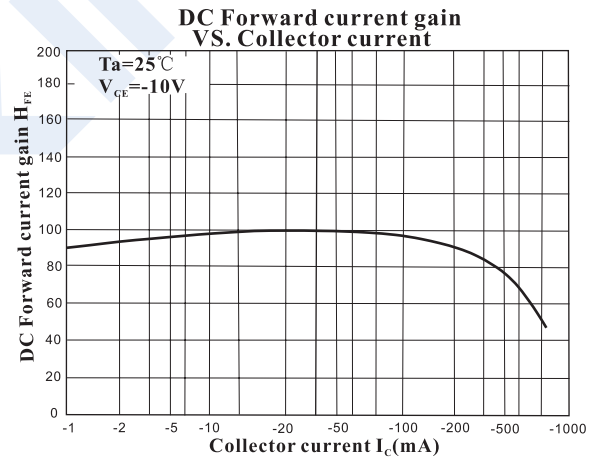
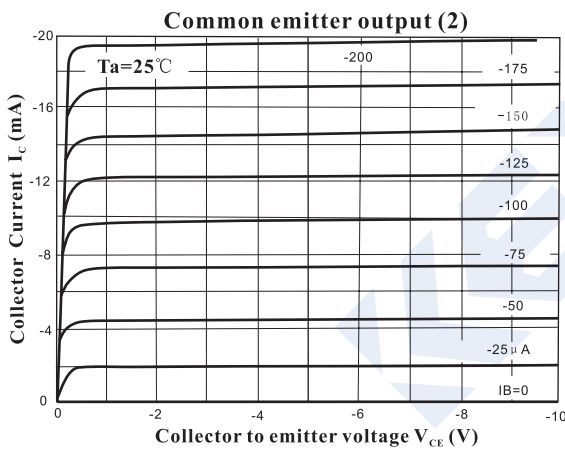
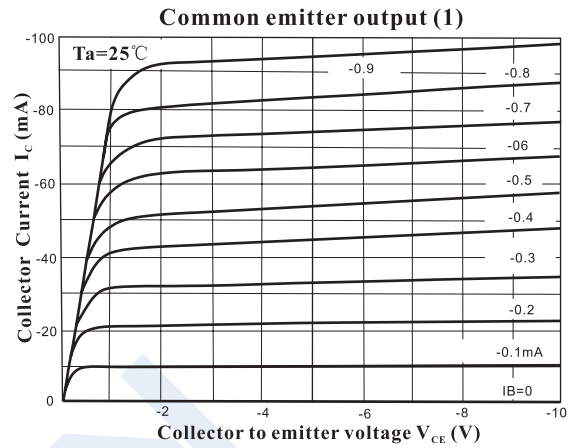
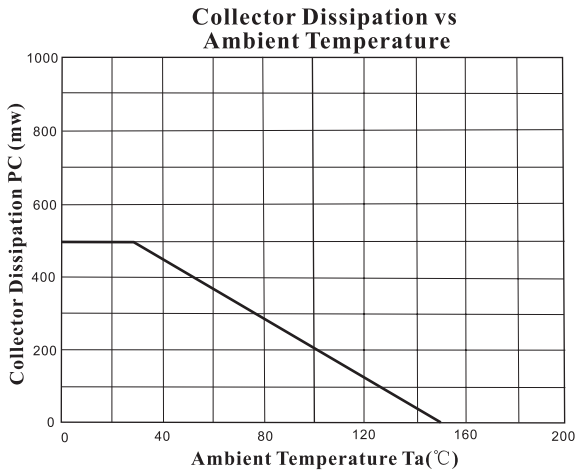
Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = -50V, I_E = 0$			-0.5	$\mu A$
Emitter Cut-off Current	$I_{EBO}$	$V_{EB} = -2V, I_C = 0$			-0.5	$\mu A$
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C = -1mA, R_{BE} = \infty$	-100			V
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = -10\mu A, I_E = 0$	-100			V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = -10\mu A, I_C = 0$	-5			V
DC Current Gain	$h_{FE}$	$V_{CE} = -10V, I_C = -10mA$	55		300	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -150mA, I_B = -15mA$		-0.15	-0.5	V
Transition Frequency	$f_T$	$V_{CE} = -10V, I_E = 10mA$		130		MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB} = -10V, I_E = 0, f = 1MHz$		11		pF

### $h_{FE}$ Classification

Marking	E		
	C	D	E
$h_{FE}$	55 ~ 110	90 ~ 180	150 ~ 300

## 2SA1368

### Electrical Characteristics Curves



## 2SA1368

