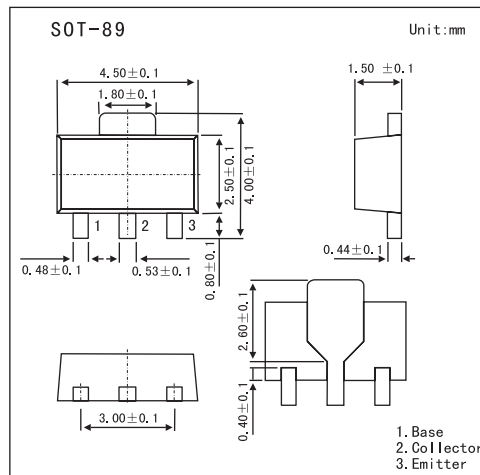


2SD1664

■ Features

- Low $V_{CE(sat)}$
- Compliments to 2SB1132



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	40	V
Collector-Emitter Voltage	V_{CEO}	32	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current (DC) $P_w=20\text{ms, duty}=1/2$	I_c	1	A
		2	A
Collector Power Dissipation	P_c *	0.5	W
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature Range	T_{stg}	-55 to +150	$^\circ\text{C}$

* mounted on a 40x40x0.7mm ceramic board.

■ Electrical Characteristics $T_a = 25^\circ\text{C}$

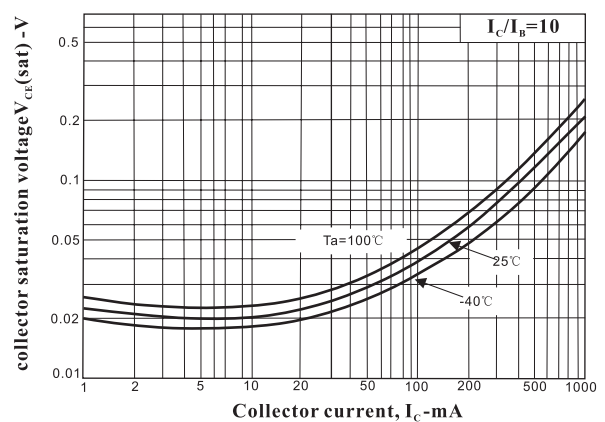
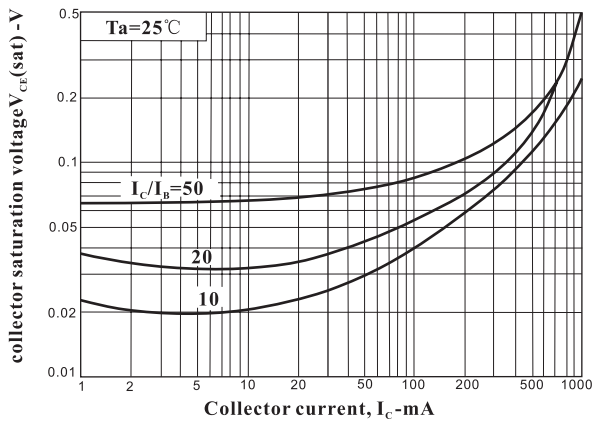
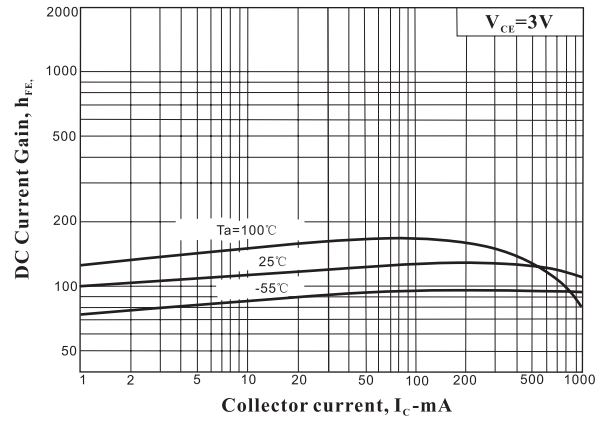
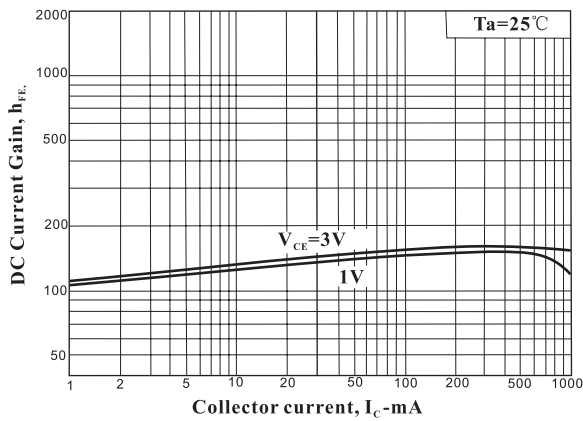
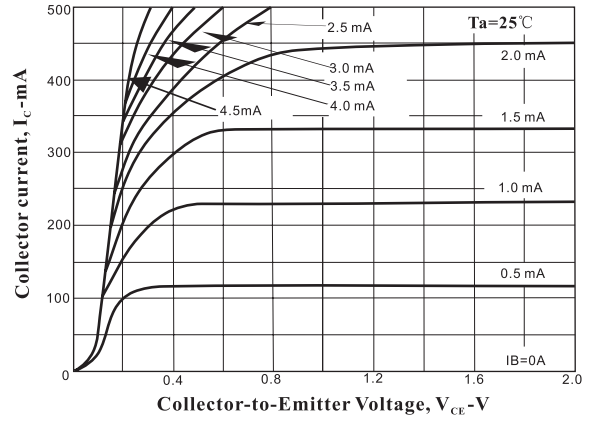
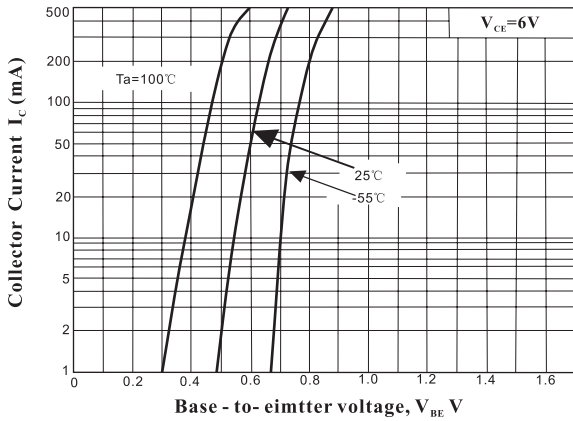
Parameter	Symbol	Testconditions	Min	Typ	Max	Unit
Collector Cut-off Current	I_{CBO}	$V_{CB} = 20V, I_E = 0$			0.5	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = 4V, I_C = 0$			0.5	μA
Collector-base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = 50\mu\text{A}, I_E = 0$	40			V
Collector-emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = 1\text{mA}, I_B = 0$	32			V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = 50\mu\text{A}$	5			
DC Current Gain	h_{FE}	$V_{CE} = -3V, I_C = -0.1\text{A}$	82		390	
Collector-emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = 500\text{mA}, I_B = 50\text{mA}$		0.15	0.4	V
Transition Frequency	f_T	$V_{CE} = 5V, I_E = -50\text{mA}, f = 100\text{MHz}$		150		MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = 10V, I_E = 0, f = 1\text{MHz}$		15		pF

■ h_{FE} Classification

Marking	DA		
	P	Q	R
h_{FE}	82 ~ 180	120 ~ 270	180 ~ 390

2SD1664

Electrical Characteristics Curves





2SD1664

