



JIANGSU CHANGJIANG ELECTRONICS TECHNOLOGY CO., LTD

SOT-89-3L Plastic-Encapsulate Transistors

2SD1664 TRANSISTOR (NPN)

FEATURES

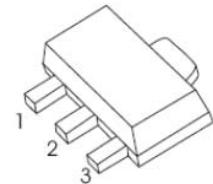
- Low $V_{CE(sat)}$, $V_{CE(sat)}=0.15V$ (typical).($I_C/I_B=500mA/50mA$)
- Complements to 2SB1132

MAXIMUM RATINGS ($T_a=25^\circ C$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	40	V
V_{CEO}	Collector-Emitter Voltage	32	V
V_{EBO}	Emitter-Base Voltage	5	V
I_c	Collector Current -Continuous	1	A
P_c	Collector power dissipation	500	mW
T_J	Junction Temperature	150	°C
T_{stg}	Storage Temperature	-55~150	°C

SOT-89-3L

1. BASE



2. COLLECTOR

3. Emitter

ELECTRICAL CHARACTERISTICS ($T_a=25^\circ C$ unless otherwise specified)

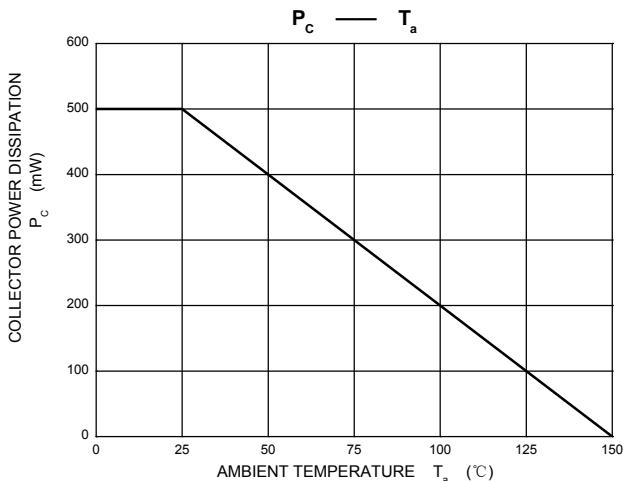
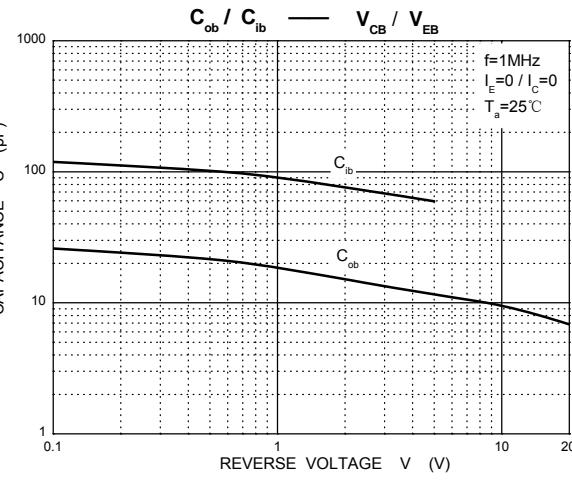
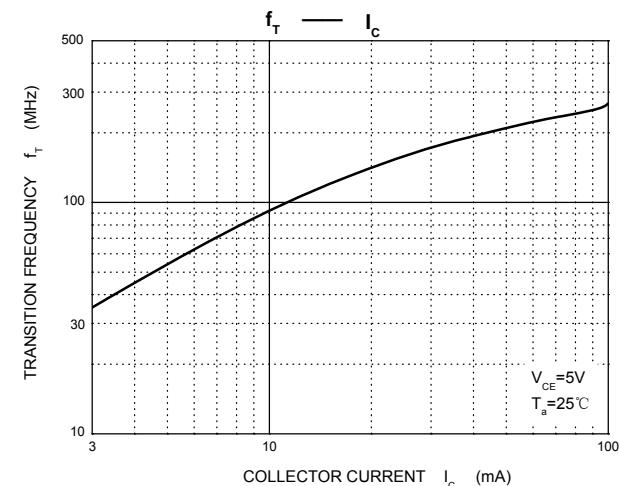
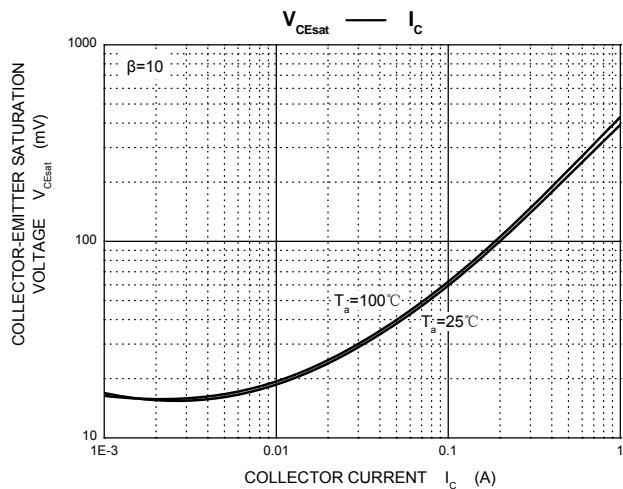
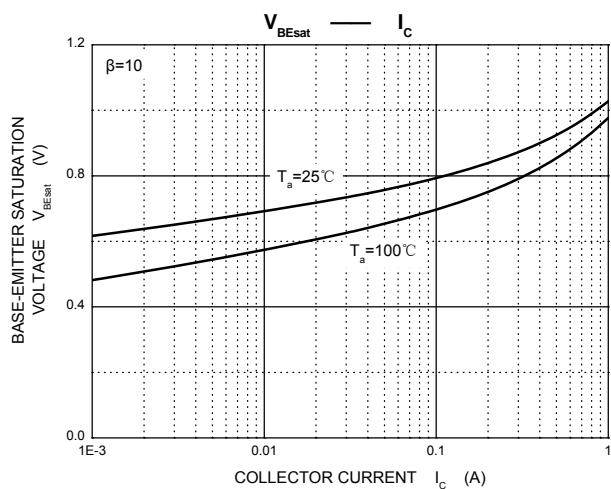
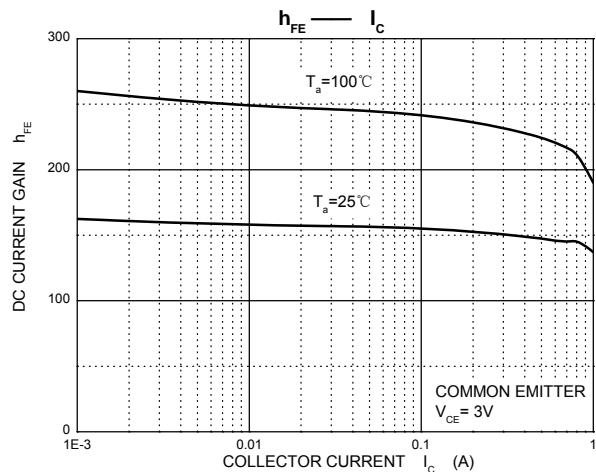
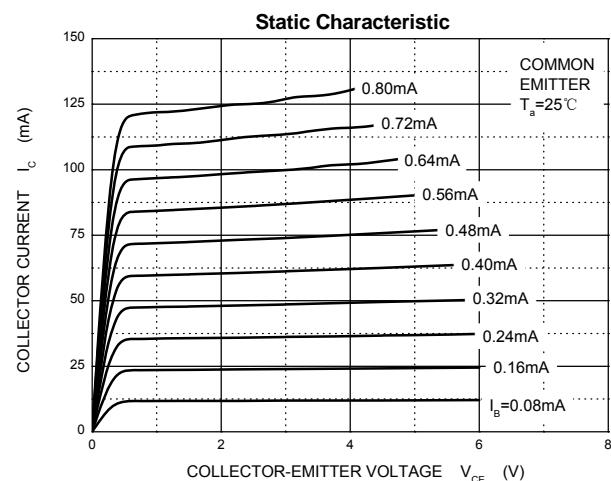
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=50\mu A, I_E=0$	40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=1mA, I_B=0$	32			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=50\mu A, I_C =0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=20V, I_E=0$			0.5	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=4V, I_C=0$			0.5	μA
DC current gain	h_{FE}	$V_{CE}=3V, I_C=100mA$	82		390	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=0.5A, I_B=50mA$			0.4	V
Transition frequency	f_T	$V_{CE}=5V, I_C=50mA, f=100MHz$		150		MHz
Collector output capacitance	C_{ob}	$V_{CB}=10V, I_E=0, f=1MHz$		15		pF

CLASSIFICATION OF h_{FE}

Rank	P	Q	R
Range	82-180	120-270	180-390
Marking	DAP	DAQ	DAR

Typical Characteristics

2SD1664



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