

SOT-89 Plastic-Encapsulate Transistors

Features

- Complementary to 2SA1797
- Power dissipation of 500mW
- High stability and high reliability
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260°C

Mechanical Data

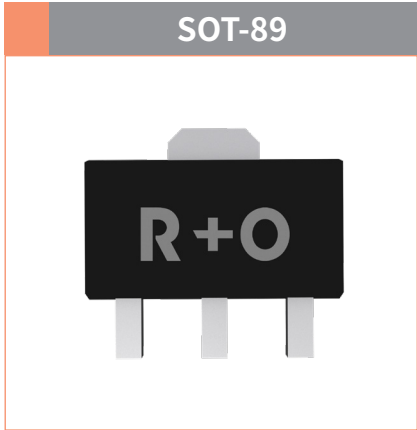
- Case: SOT-89
Molding compound meets UL 94V-0 flammability rating, RoHS-compliant,halogen-free
- Terminals: Solder plated, solderable per MIL-STD-750,Method 2026

Function Diagram

XXX = Device Code
DKP = 2SC4672-P
DKQ = 2SC4672-Q
DKR= 2SC4672-R



Collector-Base Voltage
VCBO 60V
Collector Current
2.0 Ampere



Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	VALUE
Collector-Base Voltage	V_{CBO}	V	60
Collector-Emitter Voltage	V_{CEO}		50
Emitter-Base Voltage	V_{EBO}		6.0
Collector Current	I_C	A	2.0
Collector Power Dissipation	P_C	mW	500
Storage temperature	T_{stg}	°C	-55 ~+150
Junction temperature	T_j	°C	-55 ~+150
Typical Thermal Resistance	$R_{\theta J-A}$	°C /W	250

Electrical Characteristics (Ta=25°C Unless otherwise noted)

PARAMETER	SYMBOL	UNIT	Condition	Min	Max
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	V	$I_C=50\mu A, I_E=0$	60	—
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$		$I_C=1.0mA, I_B=0$	50	—
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$		$I_C=50\mu A, I_C=0$	6.0	—
Collector-Base cut-off current	I_{CBO}	nA	$V_{CB}=60V, I_E=0$	—	100
Emitter-Base cut-off current	I_{EBO}		$V_{EB}=5.0V, I_C=0$	—	100
DC Current Gain	$h_{FE(1)}$	—	$I_C=0.5A, V_{CE}=2.0V$	82	390
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	V	$I_C=1.0A, I_B=50mA$	—	0.35
Base-Emitter Saturation Voltage	$V_{BE(sat)}$	V	$I_C=1.0A, I_B=50mA$	—	1.0

Classification Of hFE

Table with 4 columns: RANK, P, Q, R. RANK ranges from Range to 180-390.

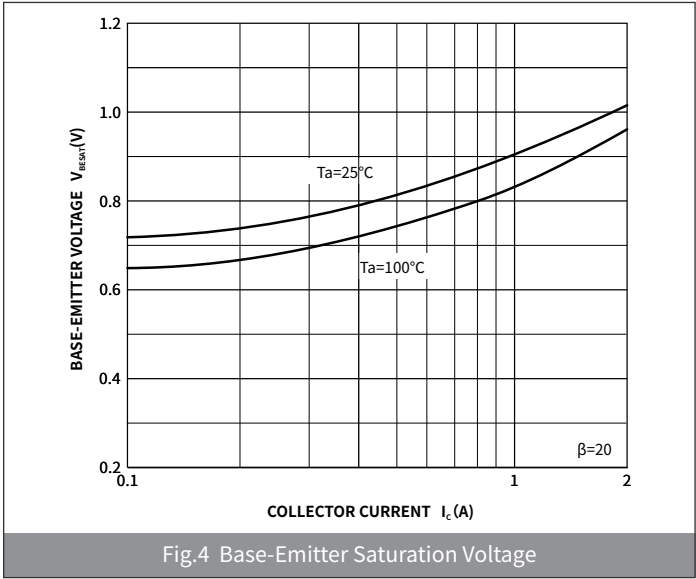
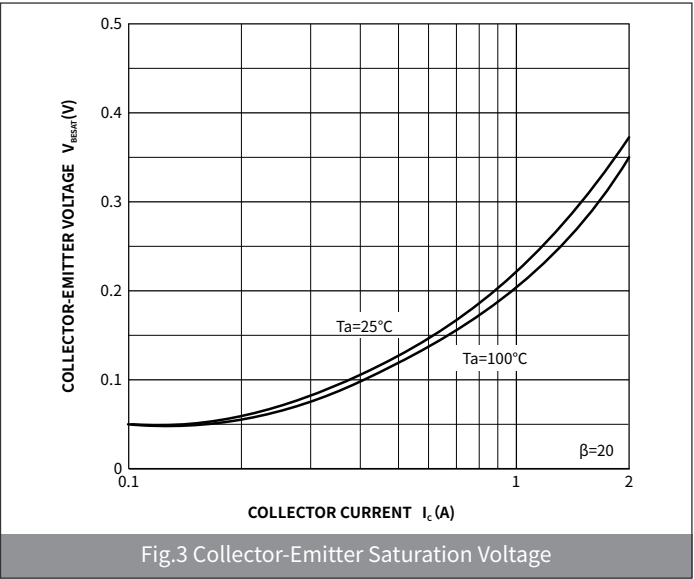
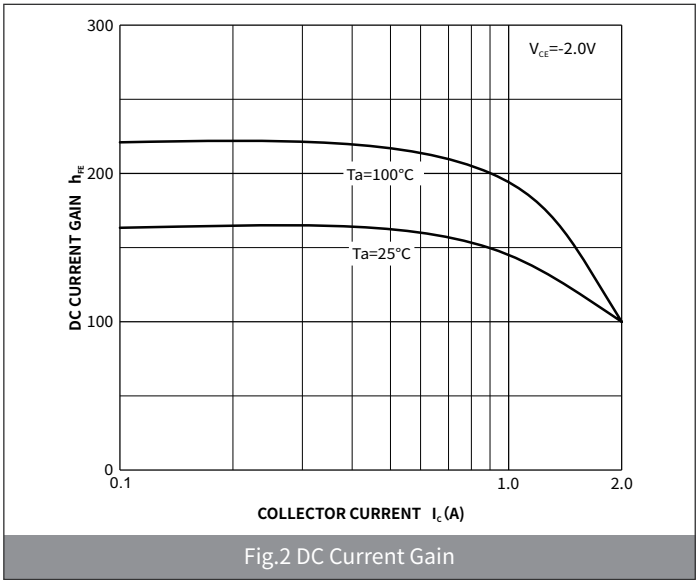
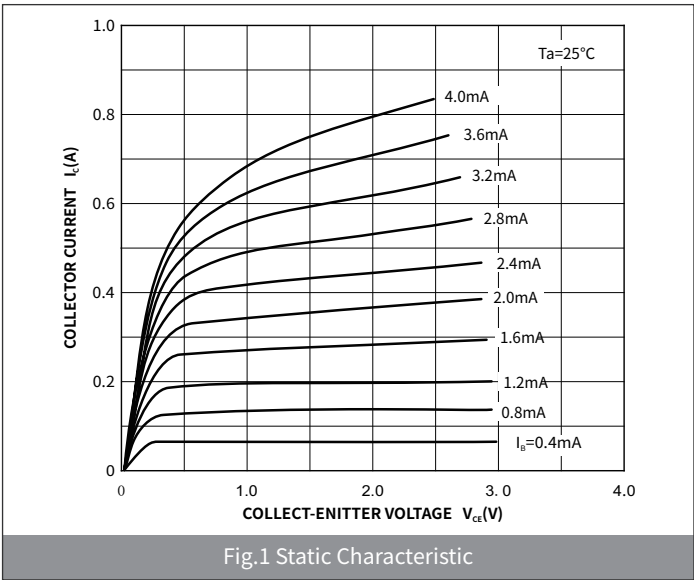
Small-signal Characteristics

Table with 7 columns: ITEM, SYMBOL, Condition, UNIT, Min, Typ, Max. Transition frequency fT is 210 MHz.

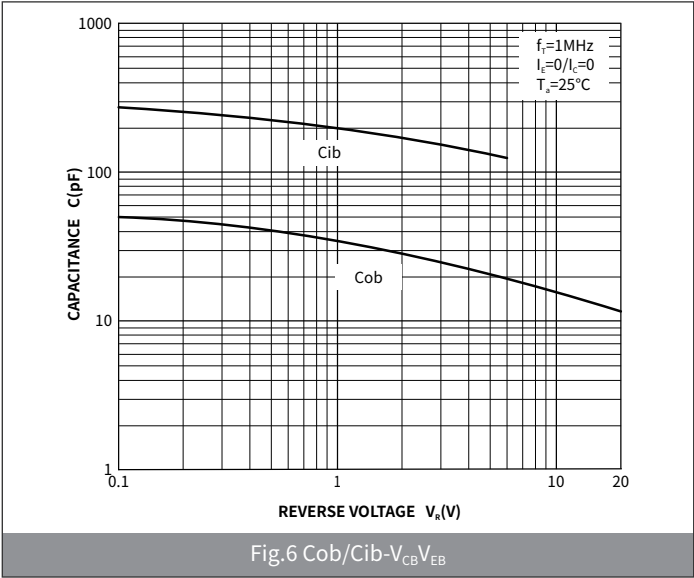
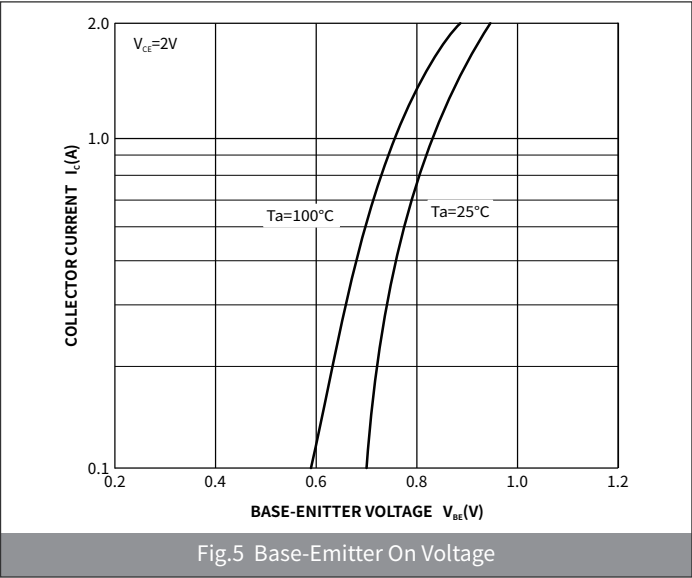
Ordering Information

Table with 7 columns: PACKAGE, PACKAGE CODE, UNIT WEIGHT(g), REEL(pcs), BOX(pcs), CARTON(pcs), DELIVERY MODE. SOT-89 package details.

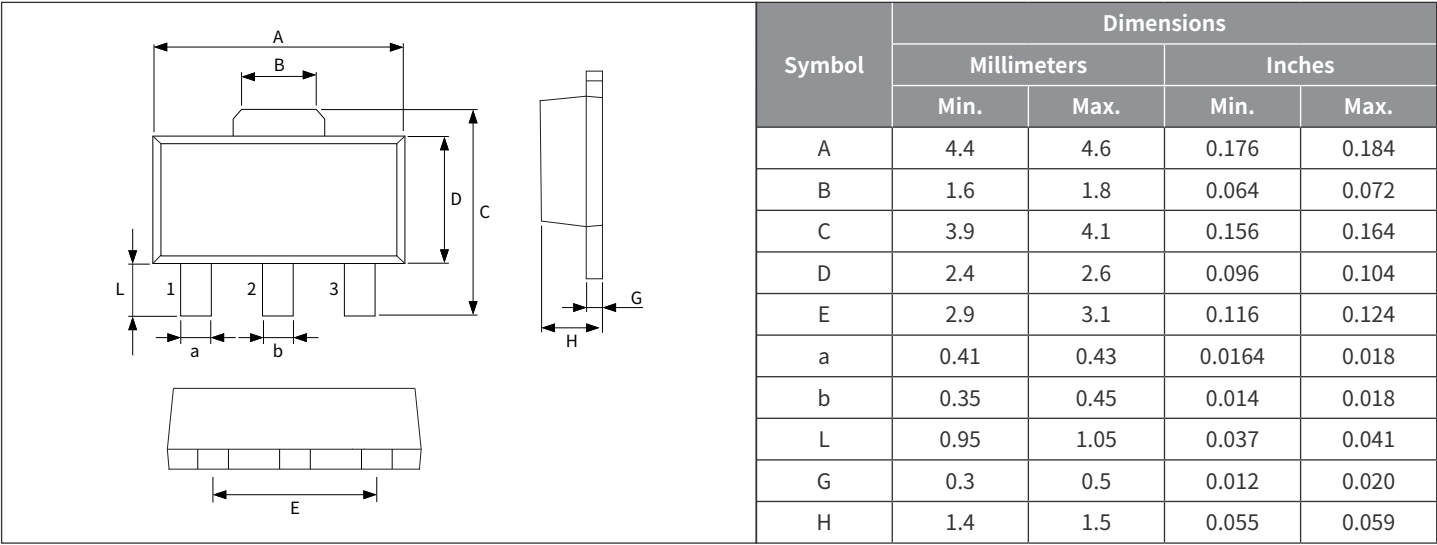
Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)



● Ratings And Characteristics Curves (Ta=25°C Unless otherwise specified)



● Package Outline Dimensions (SOT-89)



● Suggested Pad Layout

