

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Excellent DC current gain characteristics.
- Complements the 2SA1797

CLASSIFICATION OF h_{FE}

Product-Rank	2SC4672-P	2SC4672-Q	2SC4672-R
Range	82~180	120~270	180~390
Marking	DKP	DKQ	DKR

PACKAGE INFORMATION

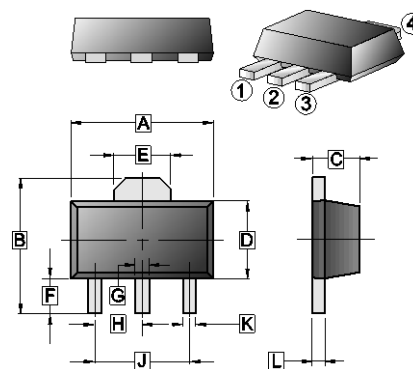
Package	MPQ	Leader Size
SOT-89	1K	7 inch

ORDER INFORMATION

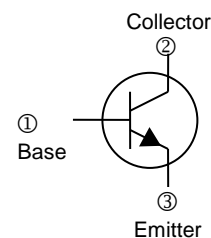
Part Number	Type
2SC4672-□	Lead (Pb)-free
2SC4672-□-C	Lead (Pb)-free and Halogen-free

*□= h_{FE} Rank

SOT-89



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.40	4.60	G	0.40	0.58
B	3.94	4.25	H	1.50 TYP	
C	1.40	1.60	J	3.00 TYP	
D	2.25	2.60	K	0.32	0.52
E	1.55 TYP.		L	0.35	0.44
F	0.89	1.20			



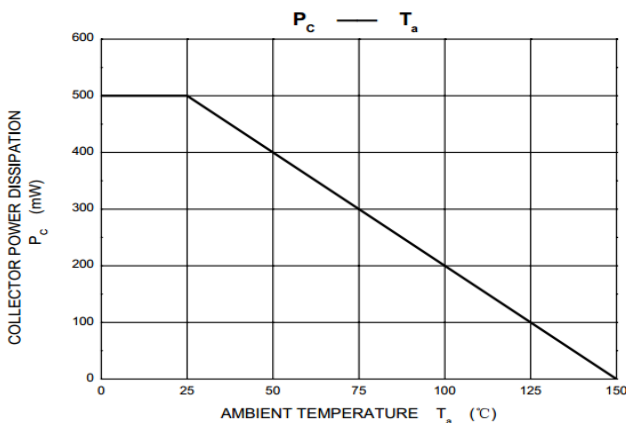
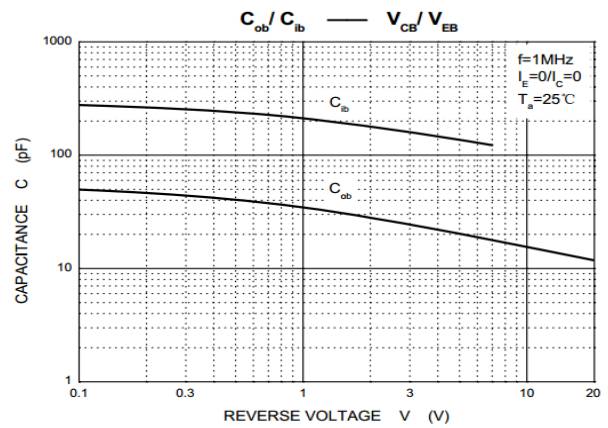
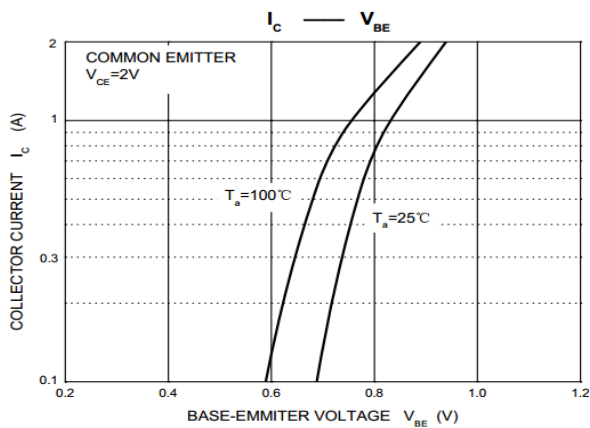
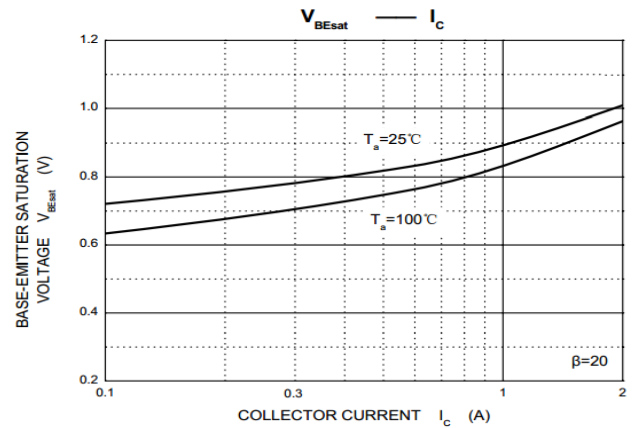
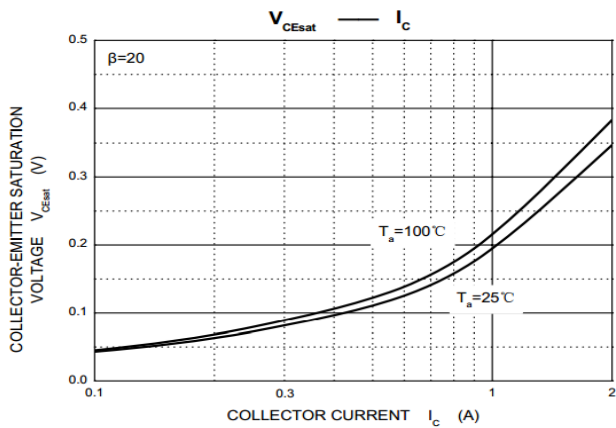
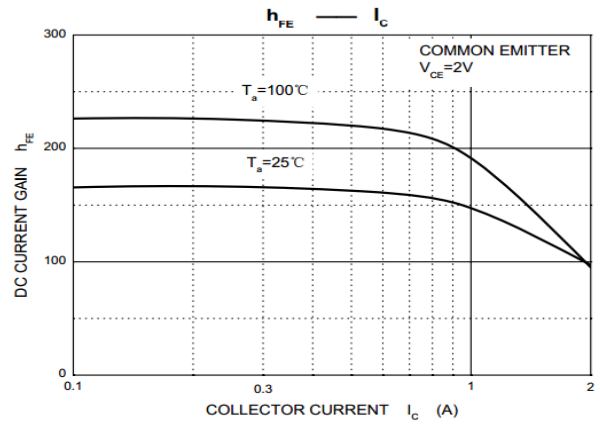
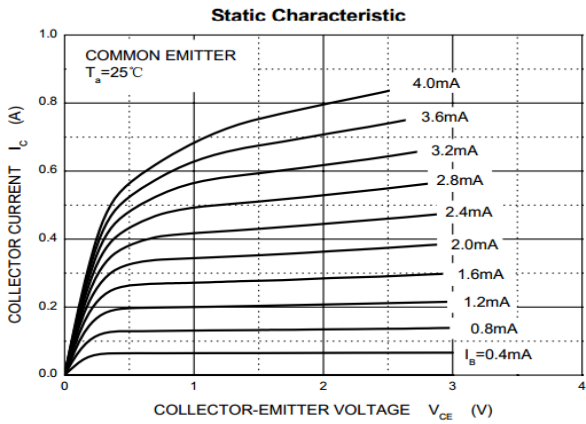
ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	6	V
Continuous Collector Current	I_C	2	A
Collector Power Dissipation	P_C	500	mW
Thermal Resistance from Junction-Ambient	$R_{\theta JA}$	250	$^\circ\text{C/W}$
Junction, Storage Temperature Range	T_J, T_{STG}	150, -55~150	$^\circ\text{C}$

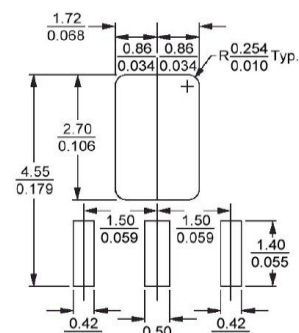
ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	60	-	-	V	$I_C=50\mu\text{A}, I_E=0$
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	50	-	-	V	$I_C=1\text{mA}, I_B=0$
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	6	-	-	V	$I_E=50\mu\text{A}, I_C=0$
Collector Cut-off Current	I_{CBO}	-	-	0.1	μA	$V_{CB}=60\text{V}, I_E=0$
Emitter Cut-off Current	I_{EBO}	-	-	0.1	μA	$V_{EB}=5\text{V}, I_C=0$
DC Current Gain	h_{FE}	82	-	390		$V_{CE}=2\text{V}, I_C=0.5\text{A}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	-	-	0.35	V	$I_C=1\text{A}, I_B=50\text{mA}$
Transition Frequency	f_T	-	210	-	MHz	$V_{CE}=2\text{V}, I_C=0.5\text{A}, f=100\text{MHz}$
Collector Output Capacitance	C_{ob}	-	25	-	pF	$V_{CB}=10\text{V}, I_E=0, f=1\text{MHz}$

CHARACTERISTIC CURVES



Mounting Pad Layout



*Dimensions in millimeters