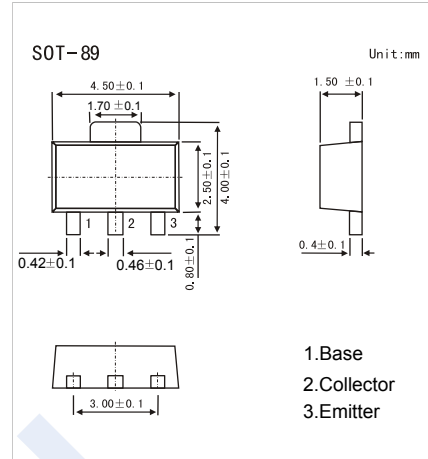


NPN Transistors

2SC4672-HF

■ Features

- Low Saturation Voltage
- Excellent h_{FE} Characteristics
- Complementary to 2SA1797-HF
- Pb-Free Package May be Available. The G-Suffix Denotes a Pb-Free Lead Finish



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

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V_{CB0}	60	V
Collector - Emitter Voltage	V_{CE0}	50	
Emitter - Base Voltage	V_{EB0}	6	
Collector Current - Continuous	I_C	2	A
Collector Power Dissipation	P_C	500	mW
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	250	$^\circ\text{C}/\text{W}$
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to 150	

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

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CB0}	$I_C = 50 \mu\text{A}$, $I_E = 0$	60			V
Collector-emitter breakdown voltage	V_{CE0}	$I_C = 1 \text{mA}$, $I_B = 0$	50			
Emitter-base breakdown voltage	V_{EB0}	$I_E = 50 \mu\text{A}$, $I_C = 0$	6			
Collector-base cut-off current	I_{CB0}	$V_{CB} = 60\text{V}$, $I_E = 0$			0.1	μA
Emitter cut-off current	I_{EB0}	$V_{EB} = 5\text{V}$, $I_C = 0$			0.1	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 1\text{A}$, $I_B = 50\text{mA}$			0.35	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = 1\text{A}$, $I_B = 50\text{mA}$			1.2	
DC current gain	h_{FE}	$V_{CE} = 2\text{V}$, $I_C = 500\text{mA}$	82		390	
Collector output capacitance	C_{ob}	$V_{CB} = 10\text{V}$, $I_E = 0$, $f = 1\text{MHz}$		25		pF
Transition frequency	f_T	$V_{CE} = 2\text{V}$, $I_C = 500\text{mA}$, $f = 100\text{MHz}$		210		MHz

■ Classification of h_{FE}

Type	2SC4672-P-HF	2SC4672-Q-HF	2SC4672-R-HF
Range	82-180	120-270	180-390
Marking	DKP* _F	DKQ* _F	DKR* _F

NPN Transistors

2SC4672-HF

■ Typical Characteristics

