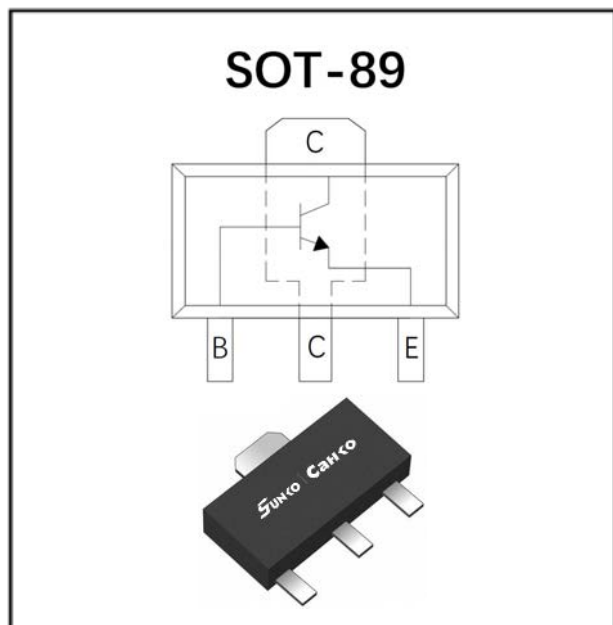


NPN General Purpose Amplifier



Features

- Epoxy meets UL-94 V-0 flammability rating
- Halogen free available upon request by adding suffix "HF"
- Moisture sensitivity level 1
- Low collector-emitter saturation voltage

Mechanical Data

- **Package:** SOT-89
Molding compound meets UL 94 V-0 flammability rating, -compliant, halogen-free
- **Terminals:** Tin plated leads, solderable per J-STD-002 and JESD22-B102
- **Marking:**

2SC4672-Q	DKQ
2SC4672-R	DKR

■Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Value
Minimum Collector-Emitter Voltage	V_{CE0}	V	$I_C=1mA, I_B=0$	50
Minimum Collector-Base Voltage	V_{CBO}	V	$I_C=50\mu A, I_E=0$	60
Minimum Emitter-Base Voltage	V_{EBO}	V	$I_E=50\mu A, I_C=0$	6
Collector Current	I_C	A		2
Collector Power Dissipation	P_C	mW		500
Thermal Resistance From Junction To Ambient	$R_{\theta JA}$	°C/W		250
Operation Junction Temperature	T_j	°C		-55 to +150
Storage Temperature	T_{stg}	°C		-55 to +150

■ Electrical Characteristics (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Conditions	Min	TYP	Max
Collector-Emitter Voltage	V_{CEO}	V	$I_C=1mA, I_B=0$	50		
Collector-Base Voltage	V_{CBO}	V	$I_C=50\mu A, I_E=0$	60		
Emitter-Base Voltage	V_{EBO}	V	$I_E=50\mu A, I_C=0$	6		
Collector-Base cut-off current	I_{CBO}	nA	$V_{CB}=60V$			100
Emitter-Base cut-off current	I_{EBO}	nA	$V_{EB}=5V$			100
DC Current Gain	h_{FE}		$V_{CE}=2V, I_C=500mA$	120		390
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	V	$I_C=1A, I_B=50mA$			0.35
Base-Emitter Voltage	V_{BE}	V	$V_{CE}=5V, I_C=5mA$			0.75
Collector Output Capacitance	C_{ob}	pF	$V_{CB}=10V, I_E=0, f=1MHz$		25	
Transition Frequency	f_T	MHz	$I_C=500mA, V_{CE}=2V$	50		

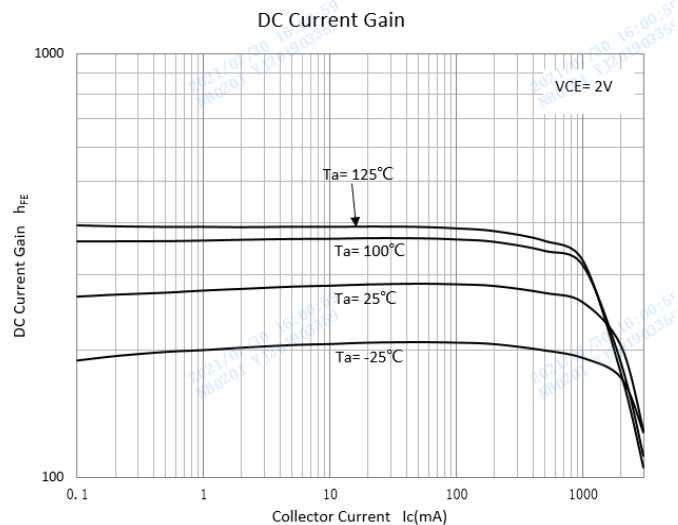
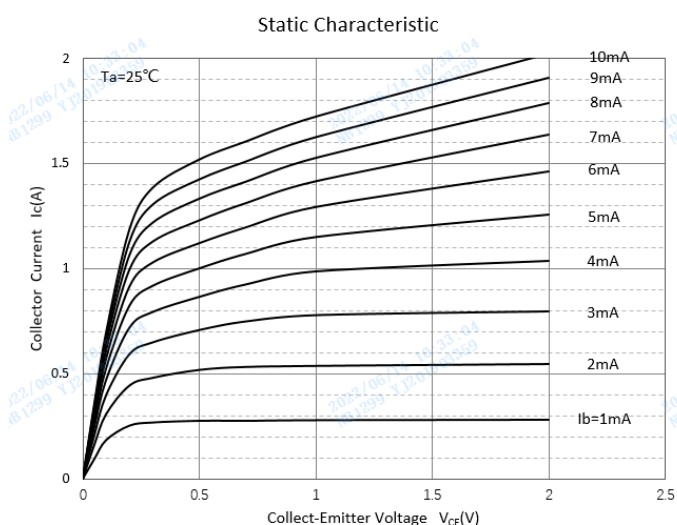
■ Classification of h_{FE}

Rank	2SC4672-Q	2SC4672-R
Range	120-270	180-390

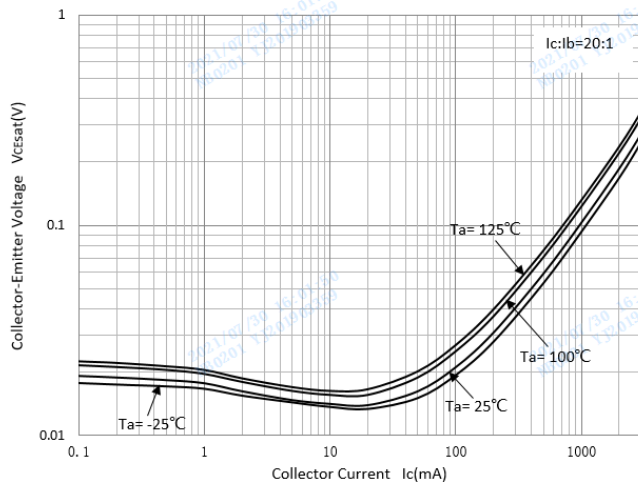
■ Ordering Information (Example)

PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
2SC4672	F2	Approximate 0.055	1000	8000	32000	7" reel

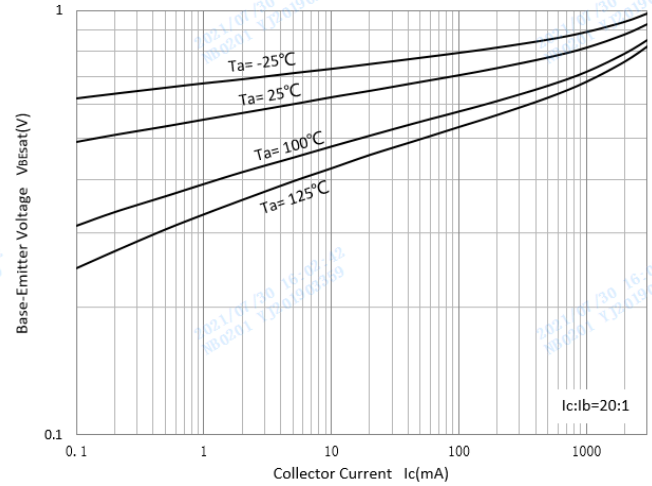
■ Characteristics (Typical)



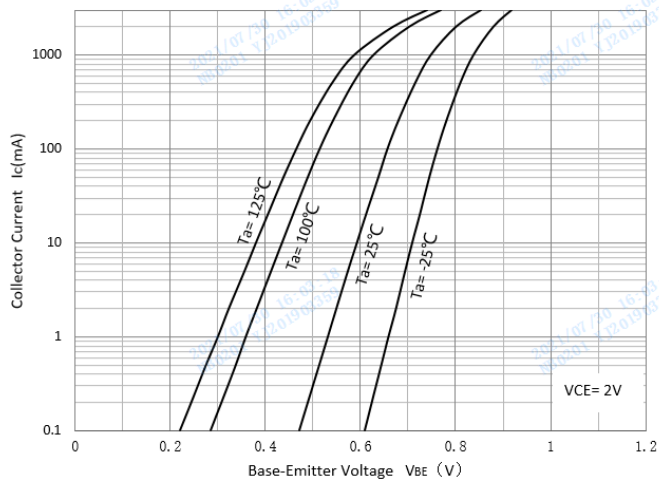
Collector-Emitter Saturation Voltage



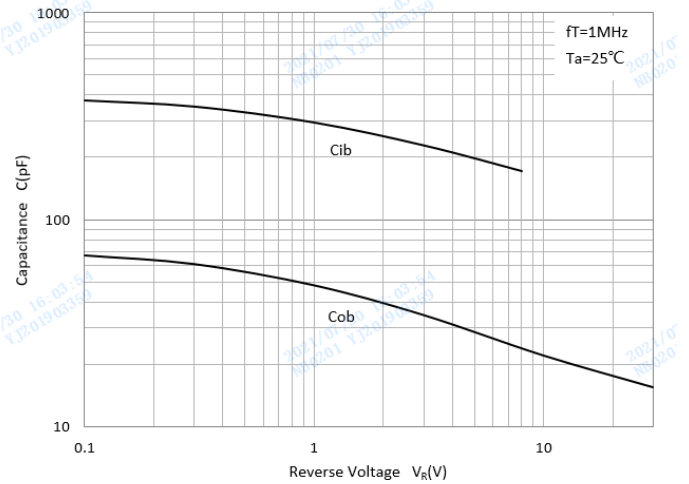
Base-Emitter Saturation Voltage



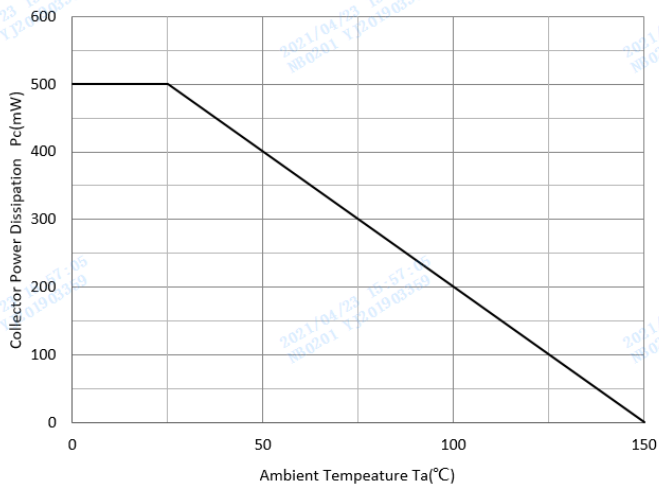
Base-Emitter On Voltage



$C_{ob}/C_{ib}-V_{CB}/V_{EB}$



Collector Power Derating Curve



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