2SC4672

NPN SILICON TRANSISTOR

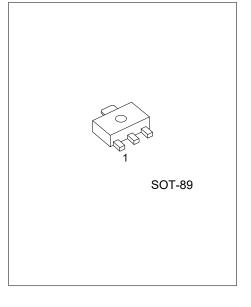
LOW FREQUENCY TRANSISTOR

■ DESCRIPTION

The UTC **2SC4672** is a low frequency transistor. Excellent DC current gain characteristics.

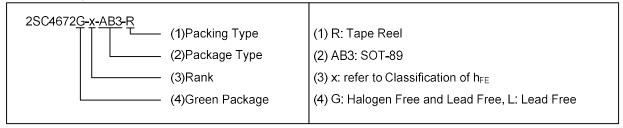
■ FEATURES

*Low Saturation Voltage, Typically $V_{CE(SAT)}$ =0.1V at I_C / I_B =1A / 50mA *Excellent DC Current Gain Characteristics

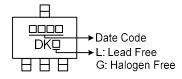


ORDERING INFORMATION

Order I	Daalaaaa	Pin Assignment			Da aldere		
Lead Free	Halogen Free	Package	1	2	3	Packing	
2SC4672L-x-AB3-R	2SC4672G-x-AB3-R	SOT-89	В	С	Е	Tape Reel	



MARKING



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■ **ABSOLUATE MAXIUM RATINGS** (T_A= 25°C, unless otherwise specified)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector to Base Voltage	V _{CBO}	60	٧
Collector to Emitter Voltage	V _{CEO}	50	٧
Emitter to Base Voltage	V _{EBO}	6	٧
Collector Current	Ic	3	Α
Collector Current (Pulse) (Note 2)	I _{CP}	6	Α
Collector Dissipation	Pc	0.9 (Note 3)	W
Junction Temperature	TJ	+150	Ĵ
Operating Temperature	T _{OPR}	-40 ~ +150	°C
Storage Temperature	T _{STG}	-40 ~ +150	Ç

Notes: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged.

Absolute maximum ratings are stress ratings only and functional device operation is not implied.

- 2. Single pulse, P_W=10ms.
- 3. Device mounted on FR-4 PCB with minimum recommended pad layout. (25×20×0.7mm)

■ THERMAL DATA

PARAMETER	SYMBOL	RATINGS	UNIT
Junction to Ambient	θ_{JA}	250	°C/W
Junction to Case	θ_{JC}	40	°C/W

■ **ELECTRICAL CHARACTERISTICS** (T_A=25°C, unless otherwise specified)

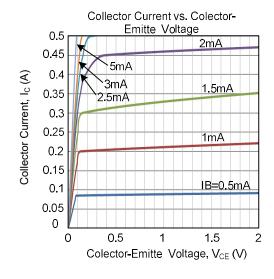
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_CBO	I _C =50μA	60			V
Collector-Emitter Breakdown Voltage	BV_CEO	I _C =1mA	50			V
Emitter-Base Breakdown Voltage	BV_{EBO}	I _E =50μA	6			V
Collector Cutoff Current	I _{CBO}	V _{CB} =60V			0.1	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =5V			0.1	μΑ
Base Emitter On Voltage	V _{BE (ON)}	$V_{CE} = 2V$, $I_C = 1A$	0.5	0.77	1.0	V
Base-Emitter Saturation Voltage	V _{BE (SAT)}	I _C =1A, I _B =50mA	0.6	0.85	1.1	V
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	I _C /I _B =1A/50mA (Note)		0.1	0.35	V
DC Current Transfer Ratio	h _{FE}	V _{CE} =2V, I _C =0.5A (Note)	120		400	
Transition Frequency	f_{T}	V _{CE} =2V, I _E =-0.5A, f=100MHz		210		MHz
Output Capacitance	Сов	V _{CB} =10V, I _E =0A, f=1MHz		25		pF

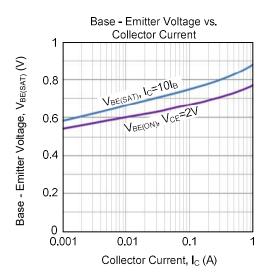
Note: Measured using pulse current.

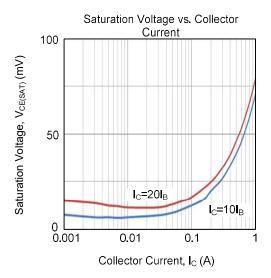
■ CLASSIFICATION OF h_{FE}

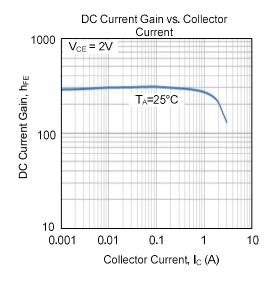
RANK	Α	В
RANGE	120 ~ 240	200 ~ 400

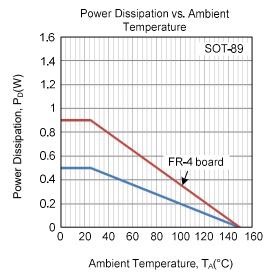
■ TYPICAL CHARACTERISTICS

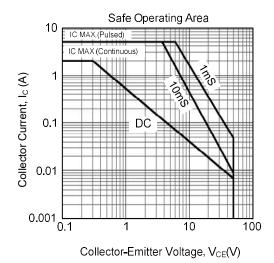




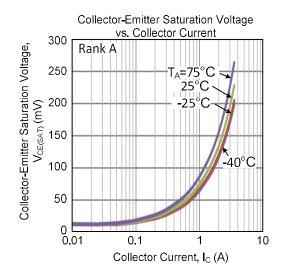


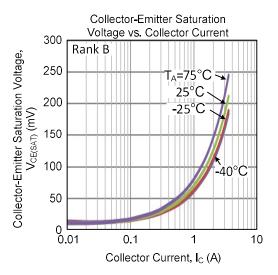






■ TYPICAL CHARACTERISTICS





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