



2SC4672

NPN SILICON TRANSISTOR

LOW FREQUENCY TRANSISTOR (50V, 2A)

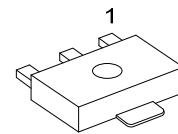
DESCRIPTION

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



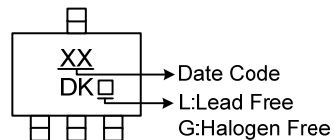
SOT-89

ORDERING INFORMATION

Ordering Number			Package	Pin Assignment			Packing
Normal	Lead Free Plating	Halogen-Free		1	2	3	
2SC4672-x-AB3-R	2SC4672L-x-AB3-R	2SC4672G-x-AB3-R	SOT-89	B	C	E	Tape Reel

2SC4672L-x-AB3-R (1) Packing Type (2) Package Type (3) Rank (4) Lead Plating	(1) R: Tape Reel (2) AB3: SOT-89 (3) x: refer to Classification of h_{FE} (4) G: Halogen Free, L: Lead Free Plating, Blank: Pb/Sn
--	---

MARKING



■ ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

PARAMETER	SYMBOL	RATINGS	UNIT
Collector to Base Voltage	V_{CBO}	60	V
Collector to Emitter Voltage	V_{CEO}	50	V
Emitter to Base Voltage	V_{EBO}	6	V
Collector Current	I_C	2	A
Collector Current (Pulse) (Note 1)	I_{CP}	5	A
Collector Dissipation	P_C	500	mW
Junction Temperature	T_J	+150	°C
Storage Temperature	T_{STG}	-40 ~ +150	°C

Note: 1. Single pulse, $P_W=10ms$

2. 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.

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

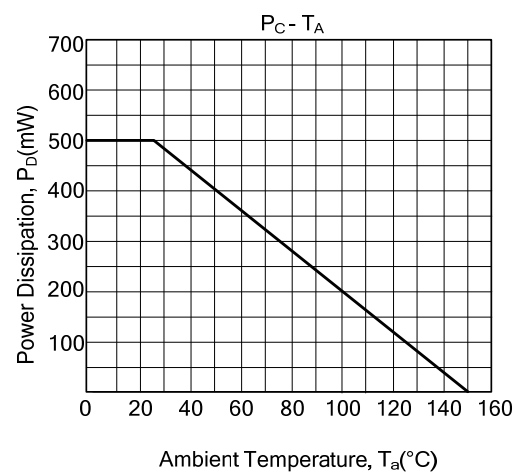
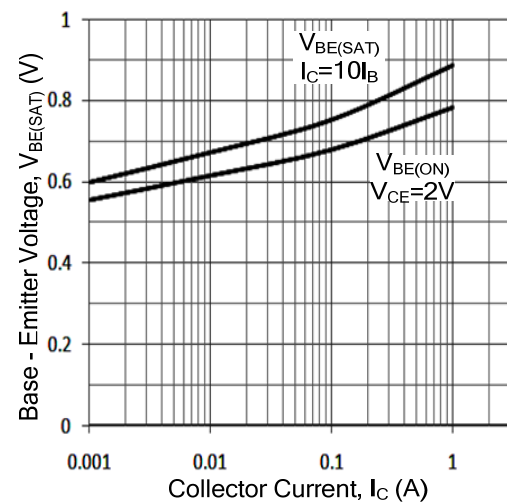
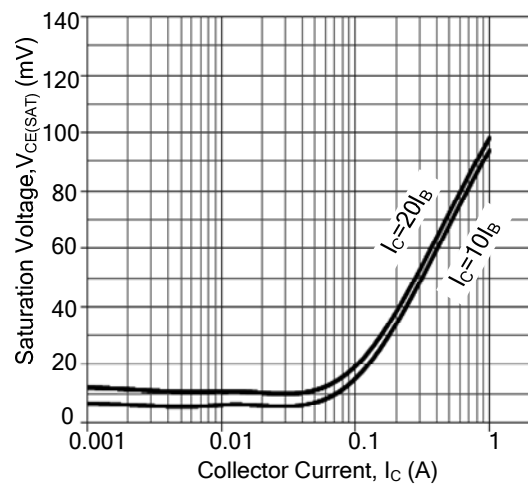
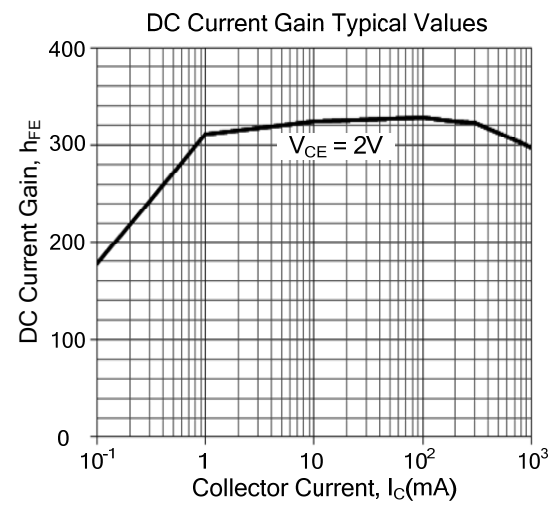
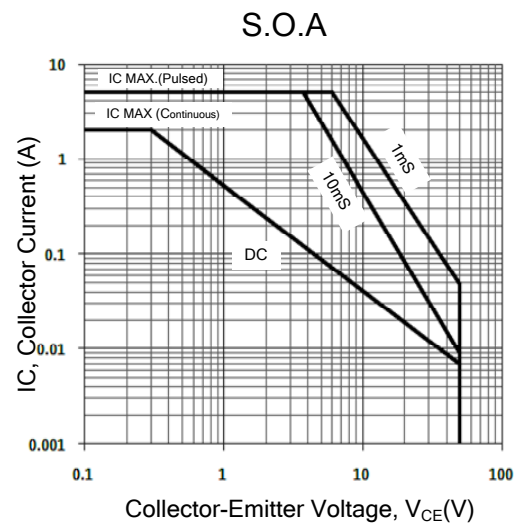
PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-Base Breakdown Voltage	BV_{CBO}	$I_C = 50\mu A$	60			V
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C = 1mA$	50			V
Emitter-Base Breakdown Voltage	BV_{EBO}	$I_E = 50\mu A$	6			V
Collector Cutoff Current	I_{CBO}	$V_{CB}=60V$			0.1	μA
Emitter Cutoff Current	I_{EBO}	$V_{EB}=5V$			0.1	μA
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	C_{OB}	$V_{CB}=10V, I_E = 0A, f=1MHz$		25		pF

Note : Measured using pulse current.

■ CLASSIFICATION OF h_{FE}

RANK	A	B
RANGE	120 ~ 240	200 ~ 400

■ TYPICAL CHARACTERISTICS



UTC assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all UTC products described or contained herein. UTC products are not designed for use in life support appliances, devices or systems where malfunction of these products can be reasonably expected to result in personal injury. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice.

