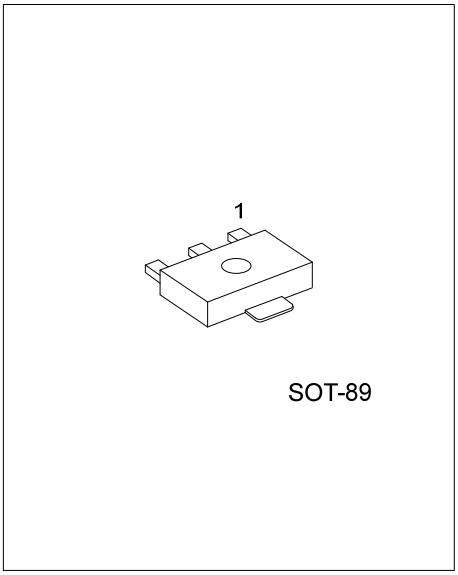
2SC4672

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

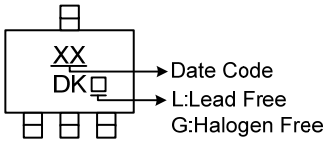
■ ORDERING INFORMATION

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)Packing 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



■ ABSOLUATE MAXIUM 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 =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	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

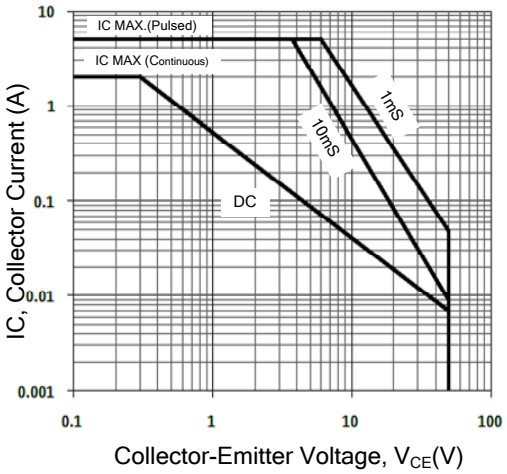
Note : Measured using pulse current.

■ CLASSIFICATION OF h_{FE}

RANK	A	B
RANGE	120 ~ 240	200 ~ 400

■ TYPICAL CHARACTERISTICS

S.O.A



DC Current Gain Typical Values