

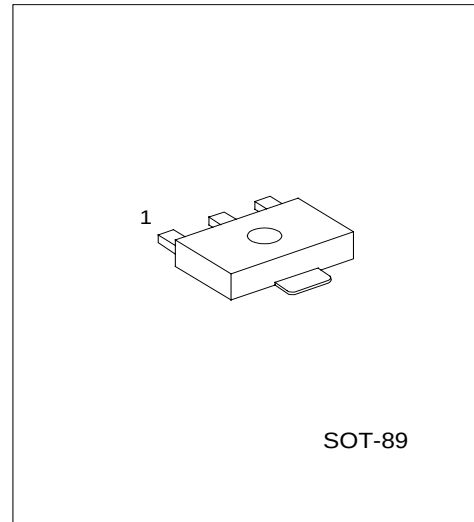
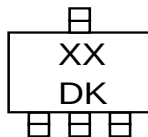
**2SC4672****NPN EPITAXIAL SILICON TRANSISTOR****LOW FREQUENCY
TRANSISTOR (50V,2A)****■ DESCRIPTION**

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

■ MARKING

*Pb-free plating product number: 2SC4672L

■ PIN CONFIGURATION

PIN NO.	PIN NAME
1	Emitter
2	Collector
3	Base

■ ORDERING INFORMATION

Order Number		Package	Packing
Normal	Lead free		
2SC4672-AB3-R	2SC4672L-AB3-R	SOT-89	Tape Reel

■ 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

Note1: Single pulse, $P_W=10ms$

■ 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	$V_{CE(sat)}$	$I_C / I_B = 1A / 50mA$ (Note1)		0.1	0.35	V
DC Current Transfer Ratio	h_{FE}	$V_{CE}=2V, I_C = 0.5A$ (Note1)	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 1: Measured using pulse current.

■ CLASSIFICATION OF h_{FE}

RANK	A	B
RANGE	120 ~ 240	200 ~ 400

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