

**LOW FREQUENCY TRANSISTOR
(50V,2A)**

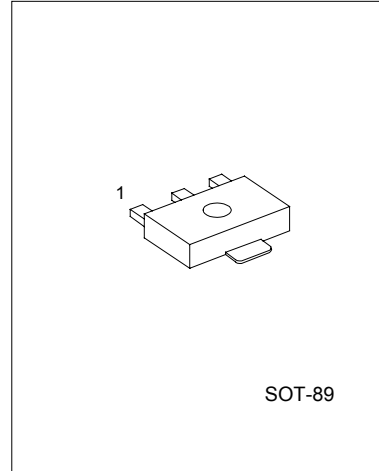
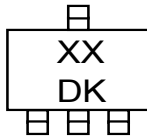
DESCRIPTION

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



SOT-89

1:EMITTER 2:COLLECTOR 3:BASE

ABSOLUTE MAXIMUM RATINGS (Ta=25°C ,unless otherwise specified)

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V_{CB0}	60	V
Collector-Emitter Voltage	V_{CEO}	50	V
Emitter-Base Voltage	V_{EBO}	6	V
Collector Power Dissipation	P_c	0.5	W
Collector Current(DC)	I_c	2	A
Collector Current(PULSE) (note 1)	I_c	5	A
Junction Temperature	T_j	150	°C
Storage Temperature	TSTG	-55 ~ +150	°C

Note1: Single pulse, PW=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	hFE	$V_{CE}=2V, I_c=0.5A$ (note1)	120		400	
Transition Frequency	fT	$V_{CE}=2V, I_E=0.5A, f=100MHz$		210		MHz
Output Capacitance	C_{ob}	$V_{CB}=10V, I_E=0A, f=1MHz$		25		pF

Note 1: Measured using pulse current.

CLASSIFICATION OF hFE

RANK	A	B
RANGE	120-240	200-400