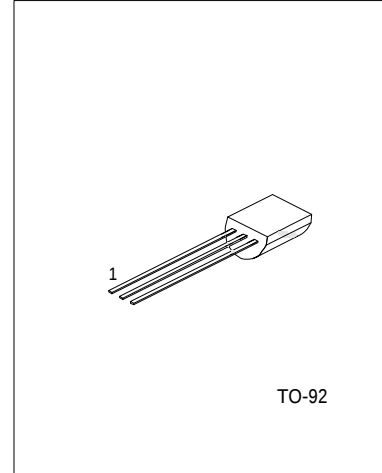


UTC2SA1015 PNP EPITAXIAL SILICON TRANSISTOR

LOW FREQUENCY PNP AMPLIFIER TRANSISTOR

FEATURES

- *Collector-Emitter Voltage:
 $V_{CE0}=-50V$
- *Collector current up to 150mA
- *High Hfe linearity
- *Complement to SC1815



1:EMITTER 2:COLLECTOR 3: BASE

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

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CBO}	-50	V
Collector-emitter voltage	V_{CEO}	-50	V
Emitter-base voltage	V_{EBO}	-5	V
Collector dissipation	P_c	400	W
Collector current	I_c	-150	mA
Base current	I_B	-50	mA
Junction Temperature	T_j	125	°C
Storage Temperature	T_{STG}	-65 ~ +150	°C

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

PARAMETER	SYMBOL	TEST CONDITIONS	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	BV_{CBO}	$I_c=-100\mu A, I_E=0$	-50			V
Collector-emitter breakdown voltage	BV_{CEO}	$I_c=-10mA, I_B=0$	-50			V
Emitter-base breakdown voltage	BV_{EBO}	$I_E=-10\mu A, I_c=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-50V, I_E=0$			-100	nA
Emitter cut-off current	I_{EBO}	$V_{EB}=-5V, I_c=0$			-100	nA
DC current gain(note)	h_{FE1}	$V_{CE}=-6V, I_c=-2mA$	70		400	
	h_{FE2}	$V_{CE}=-6V, I_c=-150mA$	25			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_c=-100mA, I_B=-10mA$		-0.1	-0.3	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_c=-100mA, I_B=-10mA$			-1.1	V
Current gain bandwidth product	f_T	$V_{CE}=-10V, I_c=-1mA$	80			MHz
Output capacitance	C_{ob}	$V_{CB}=-10V, I_E=0, f=1MHz$		4.0	7.0	pF
Noise Figure	NF	$I_c=-0.1mA, V_{CE}=-6V$ $R_G=1k\Omega, f=100Hz$		0.5	6	dB

UTC2SA1015 PNP EPITAXIAL SILICON TRANSISTOR

CLASSIFICATION OF hFE

RANK	Y	GR	BL
RANGE	120-240	200-400	350-700

TYPICAL CHARACTERISTIC CURVES

Fig.1 Static characteristics

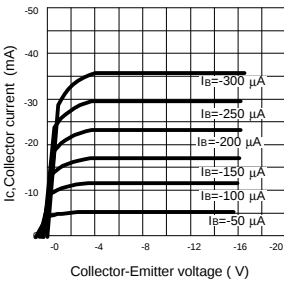


Fig.2 DC current Gain

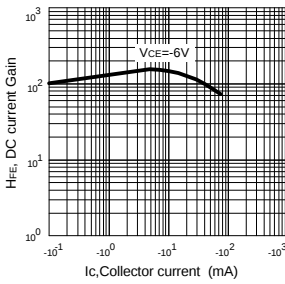


Fig.3 Base-Emitter on Voltage

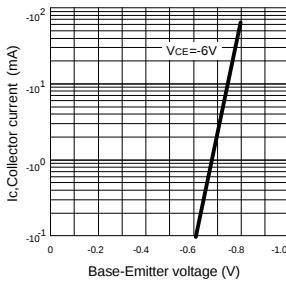


Fig.4 Saturation voltage

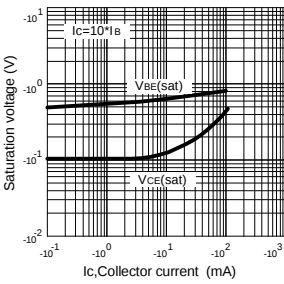


Fig.5 Current gain-bandwidth product

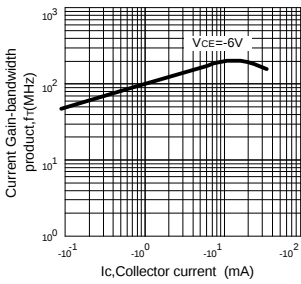


Fig.6 Collector output Capacitance

