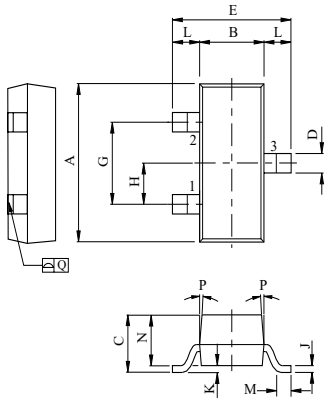
KTC3876S

EPITAXIAL PLANAR NPN TRANSISTOR

GENERAL PURPOSE APPLICATION.
SWITCHING APPLICATION.

FEATURES

- Excellent h_{FE} Linearity
  : $h_{FE}(2)$=25(Min.) at V_{CE}=6V, I_C=400mA.
- Complementary to KTA1505S.



DIM	MILLIMETERS
A	2.93±0.20
B	1.30+0.20/-0.15
C	1.30 MAX
D	0.40+0.15/-0.05
E	2.40+0.30/-0.20
G	1.90
H	0.95
J	0.13+0.10/-0.05
K	0.00 ~ 0.10
L	0.55
M	0.20 MIN
N	1.00+0.20/-0.10
P	7°
Q	0.1 MAX

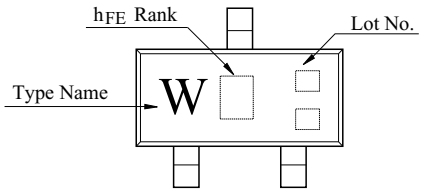
1. EMITTER
2. BASE
3. COLLECTOR

SOT-23

MAXIMUM RATING (Ta=25℃)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	35	V
Collector-Emitter Voltage	V_{CEO}	30	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current	I_C	500	mA
Base Current	I_B	50	mA
Collector Power Dissipation	P_C	150	mW
Junction Temperature	T_j	150	℃
Storage Temperature Range	T_{stg}	-55 150	℃

Marking

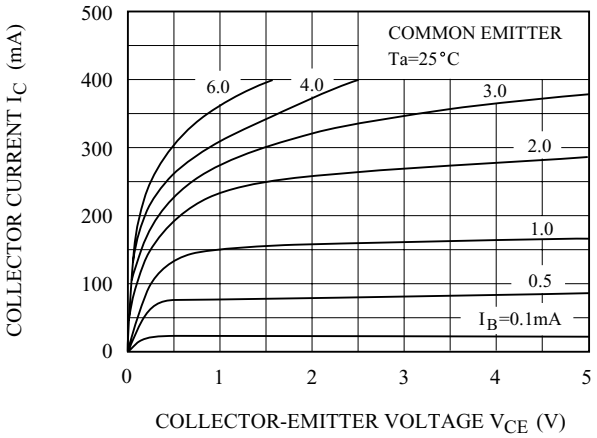


ELECTRICAL CHARACTERISTICS (Ta=25℃)

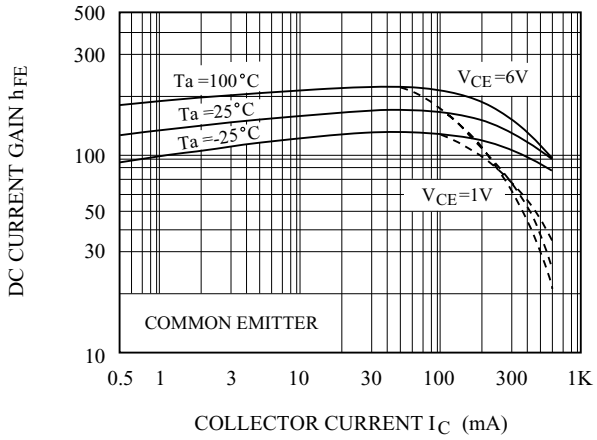
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	V_{CB}=35V, I_E=0	-	-	0.1	μA
Emitter Cut-off Current	I_{EBO}	V_{EB}=5V, I_C=0	-	-	0.1	μA
DC Current Gain (Note)	$h_{FE}(1)$	V_{CE}=1V, I_C=100mA	70	-	400	
	$h_{FE}(2)$	V_{CE}=6V, I_C=400mA	25	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	I_C=100mA, I_B=10mA	-	0.1	0.25	V
Base-Emitter Voltage	V_{BE}	V_{CE}=1V, I_C=100mA	-	0.8	1.0	V
Transition Frequency	f_T	V_{CE}=6V, I_C=20mA	-	300	-	MHz
Collector Output Capacitance	C_{ob}	V_{CB}=6V, I_E=0, f=1MHz	-	7.0	-	pF

(Note) : $h_{FE}(1)$ Classification O:70 140 Y:120 240 GR:200 400
$h_{FE}(2)$ Classification O:25Min. Y:40Min.

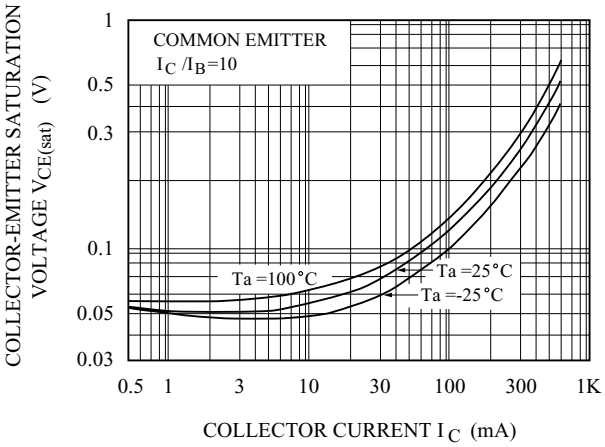
I_C - V_{CE}
(LOW VOLTAGE REGION)



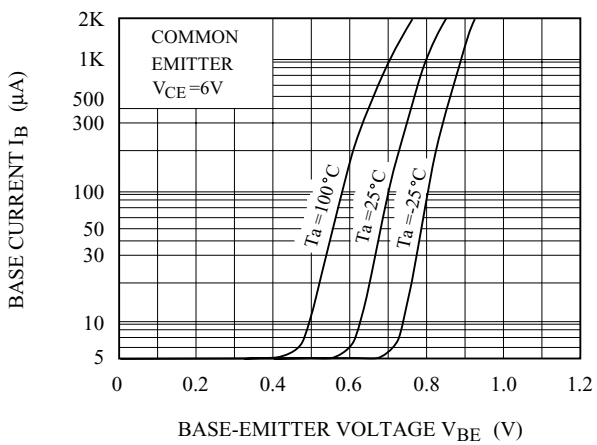
h_{FE} - I_C



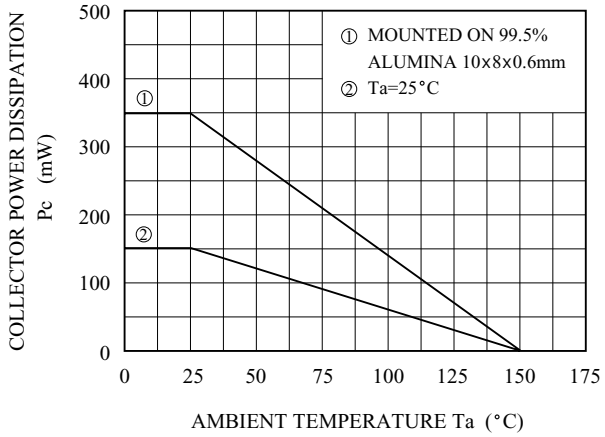
$V_{CE(sat)}$ - I_C



I_B - V_{BE}



Pc - Ta



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Bipolar Transistors - Pre-Biased ***category:***

Click to view products by KEC ***manufacturer:***

Other Similar products are found below :

RN1607(TE85L,F) DRC9A14E0L DTA124GKAT146 DTA144WETL DTA144WKAT146 DTC113EET1G DTC115TETL DTC115TKAT146 DTC124TETL DTC144VUAT106 MUN5241T1G NSBA114TDP6T5G SMUN5330DW1T1G SSVMUN5312DW1T2G RN1303(TE85L,F) RN1306(TE85L,F) RN4605(TE85L,F) TTEPROTOTYPE79 EMH15T2R SMUN2214T3G SMUN5335DW1T1G NSBC143ZPDP6T5G NSVMUN5113DW1T3G SMUN5230DW1T1G SMUN2214T1G FMA7AT148 DTC114EUA-TP NSVDTA114EET1G SMUN5237DW1T1G SMUN5213DW1T1G SMUN5114DW1T1G SMUN2111T1G DTC124ECA-TP DTC123TM3T5G DTA114ECA-TP DTA113EM3T5G DTC113EM3T5G NSVMUN5135DW1T1G NSVMUN2237T1G NSVDTC143ZM3T5G SMUN5335DW1T2G SMUN5216DW1T1G NSVMUN5316DW1T1G NSVMUN5215DW1T1G NSVMUN5213DW1T3G NSVMUN2112T1G NSVIMD10AMT1G NSVEMC2DXV5T1G NSVDTC144WET1G NSVDTC123JET1G