



NPN Silicon Transistor

132D

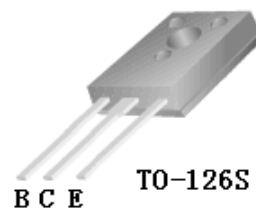
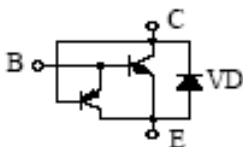
General Features

- Planar construction with triple diffused process
- Low saturation voltage
- Inter-integrated diode and sourced anti-saturation net
- Low switch power loss, High reliability
- High breakdown voltage
- Good current characteristic
- Short switch time
- Wide SOA.
- Accord with RoHS compliant

Available Package TO-126S

Application

- Fluorescent lamp
- Electronic ballast
- Electronic transformer



Absolute Maximum Ratings  $T_c=25^\circ\text{C}$

Item	Symbol	Value	Unit
Collector-Base Voltage	$V_{CBO}$	600	V
Collector-Emitter Voltage	$V_{CEO}$	400	V
Emitter-Base Voltage	$V_{EBO}$	9	V
Collector Current	$I_C$	1.5	A
Total Power Dissipation $T_a=25^\circ\text{C}$	$P_C$	2	W
		$T_c=25^\circ\text{C}$	50
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-55~150	$^\circ\text{C}$

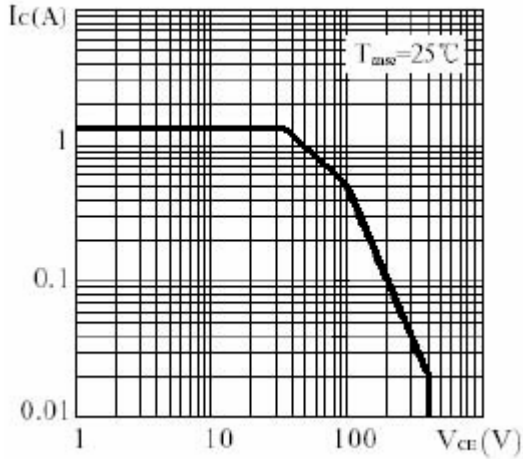
Electronics Characteristics  $T_c=25^\circ\text{C}$

Item	Symbol	Testing Condition	Spec. Limit		Unit 单位
			Min	Max	
Collector-Base Breakdown Voltage	$BV_{CBO}$	$I_C=1\text{mA}$ $I_E=0$	600		V
Collector-Emitter Breakdown Voltage	$BV_{CEO}$	$I_C=10\text{mA}$ $I_B=0$	400		V
Emitter-Base Breakdown Voltage	$BV_{EBO}$	$I_E=1\text{mA}$ $I_C=0$	9		V
Collector-Base Cutoff Current	$I_{CBO}$	$V_{CB}=580\text{V}$ $I_E=0$		20	$\mu\text{A}$
Collector-Emitter Cutoff Current	$I_{CEO}$	$V_{CE}=390\text{V}$ $I_B=0$		20	$\mu\text{A}$
Emitter-Base Cutoff Current	$I_{EBO}$	$V_{EB}=9\text{V}$ $I_C=0$		20	$\mu\text{A}$
Collector-Emitter Saturation Voltage	$V_{CEsat}$	$I_C=500\text{mA}$ $I_B=100\text{mA}$		0.7	V
Base-Emitter Saturation Voltage	$V_{BEsat}$	$I_C=500\text{mA}$ $I_B=100\text{mA}$		1.2	V
DC Current Gain	$h_{FE}$	$V_{CE}=5\text{V}$ $I_C=200\text{mA}$	15	30	
Fall Time	$t_f$	$I_C=0.25\text{A}$ (UI9600)		0.8	$\mu\text{s}$
Storage Time	$t_s$		1.5	3.0	$\mu\text{s}$
Current Gain Bandwidth	$f_T$	$V_{CE}=10\text{V}$ $I_C=100\text{mA}$ $f=1\text{MHZ}$	5		MHZ

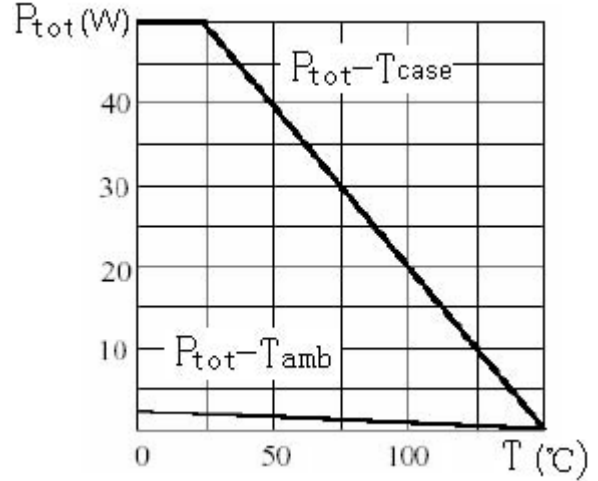


Typical Characteristics

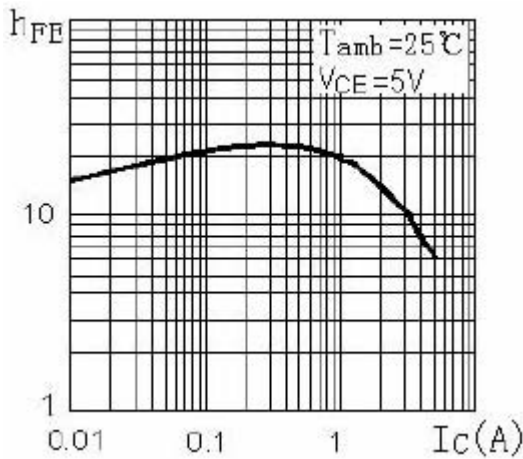
SOA (DC)



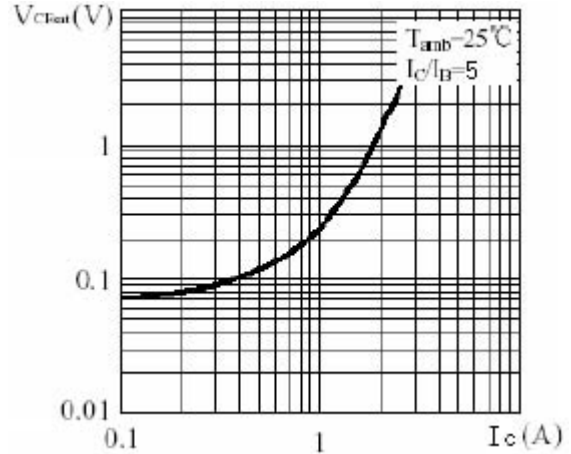
Pc-T



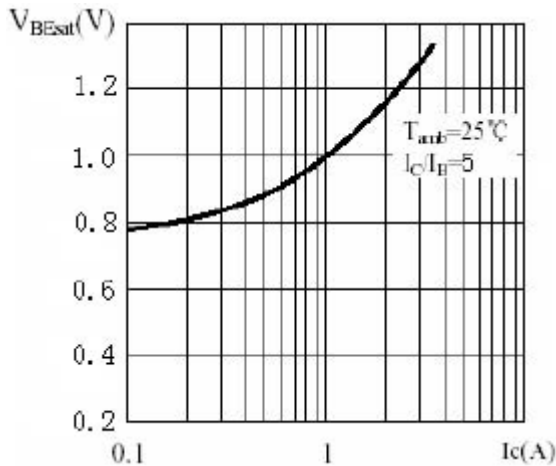
$h_{FE}-I_c$



$V_{CE(sat)}-I_c$



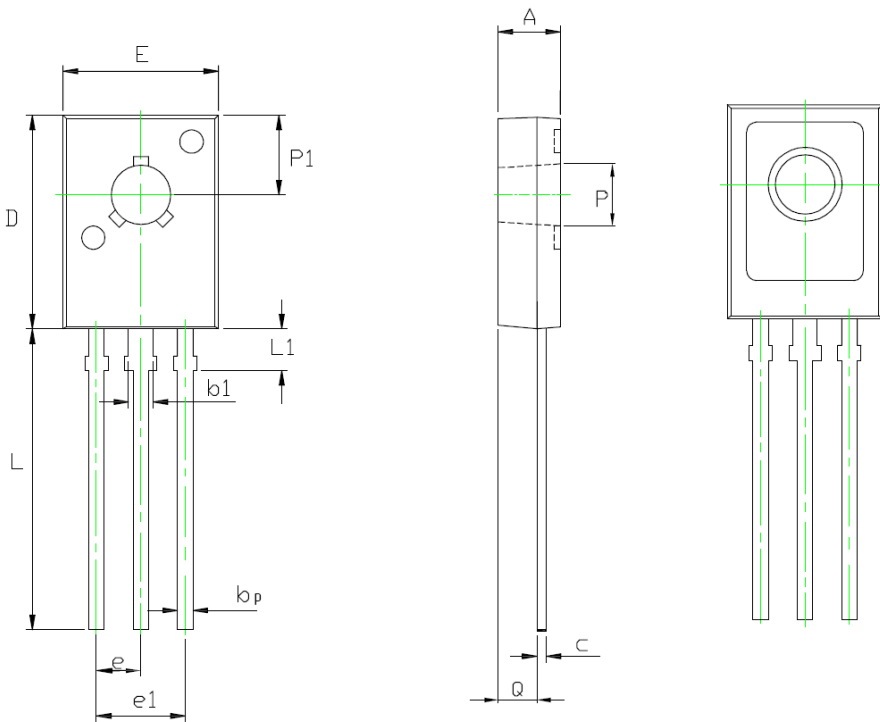
$V_{BE(sat)}-I_c$





TO-126 PACKAGE OUTLINE DIMENSIONS

Unit: mm



Item	Min.	Max.
A	2.280	2.680
b1	1.170	1.370
bp	0.660	0.860
c	0.450	0.600
D	10.700	11.100
E	7.430	7.830
e	2.280 REF	
e1	4.560 REF	
L	14.900	15.900
L1	1.750	1.950
P	3.350	3.550
P1	3.600	3.900
Q	1.060	1.460