



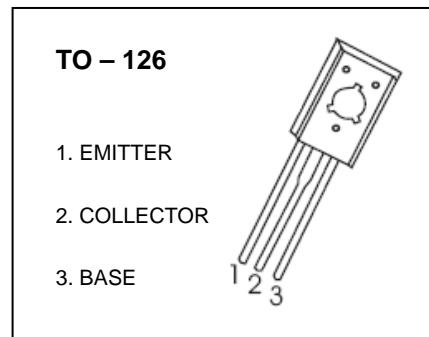
JIANGSU CHANGJING ELECTRONICS TECHNOLOGY CO., LTD

JSCJ TO-126 Plastic-Encapsulate Transistors

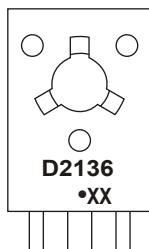
2SD2136 TRANSISTOR (NPN)

FEATURES

- High Forward Current Transfer Ratio h_{FE} Which has Satisfactory Linearity.
- Low Collector-Emitter Saturation Voltage $V_{CE(sat)}$
- Allowing Supply with the Radial Taping

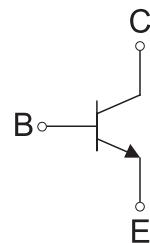


MARKING



D2136=Device code
Solid dot= Green molding compound device, if none, the normal device
XX=Code

Equivalent Circuit



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2SD2136	TO-126	Bulk	200pcs/Bag
2SD2136-TU	TO-126	Tube	60pcs/Tube

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	60	V
V_{EBO}	Emitter-Base Voltage	6	V
I_c	Collector Current	3	A
P_c	Collector Power Dissipation	1.25	W
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	100	°C/W
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS

$T_a=25^\circ C$ unless otherwise specified

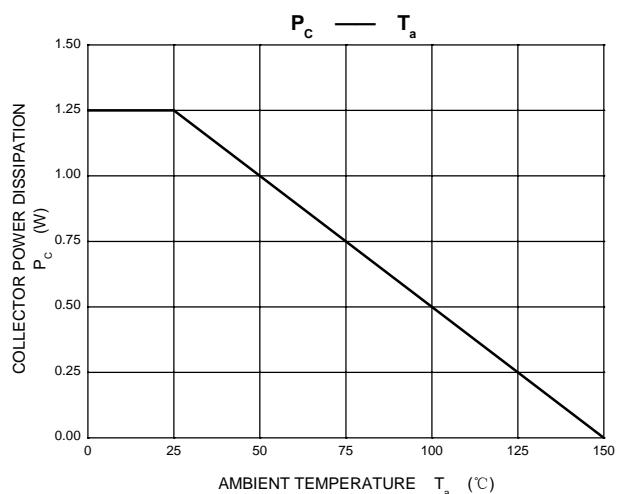
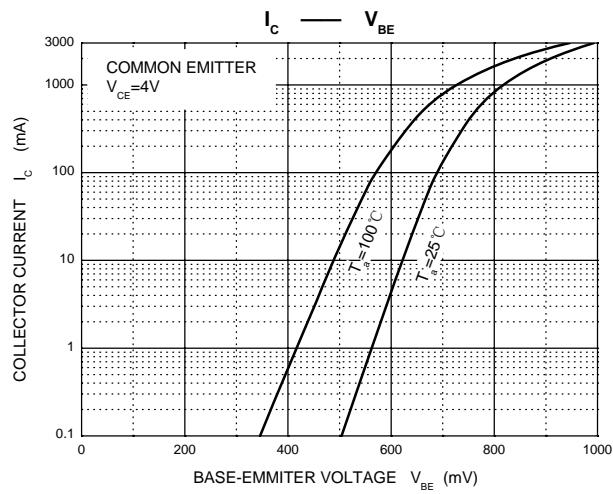
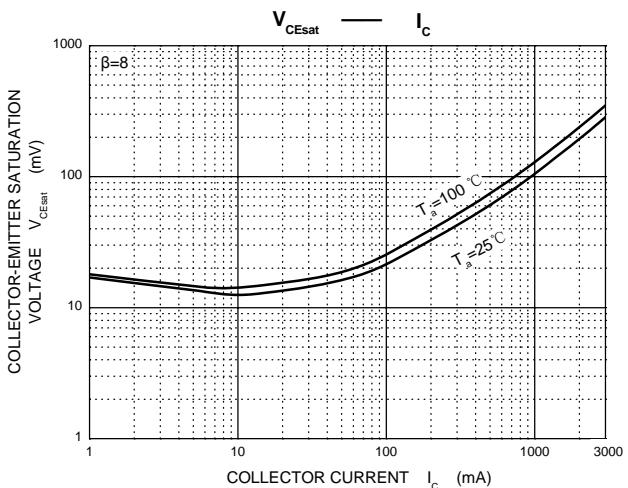
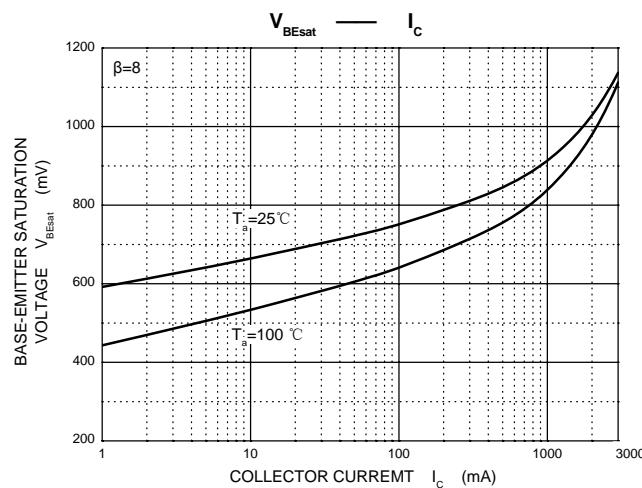
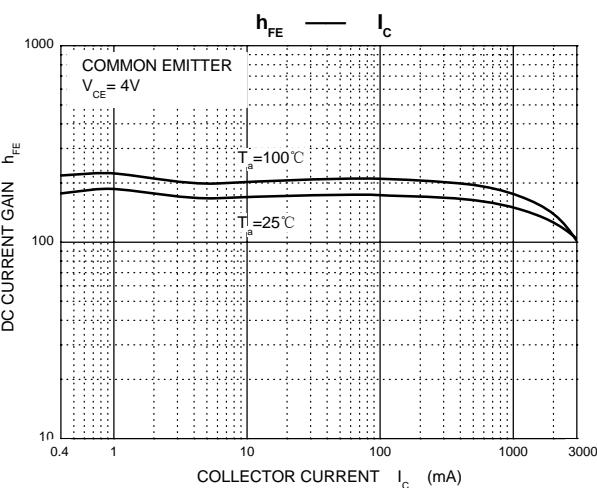
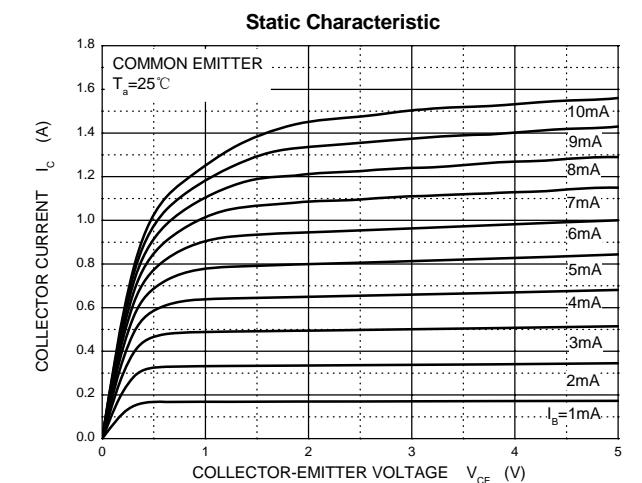
Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu A, I_E=0$	60			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}^*$	$I_C=30mA, I_B=0$	60			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu A, I_C=0$	6			V
Collector cut-off current	I_{CBO}	$V_{CB}=60V, I_E=0$			200	μA
Collector cut-off current	I_{CEO}	$V_{CE}=60V, I_B=0$			300	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=6V, I_C=0$			1	mA
DC current gain	$h_{FE(1)}^*$	$V_{CE}=4V, I_C=1A$	40		250	
	$h_{FE(2)}^*$	$V_{CE}=4V, I_C=3A$	10			
Collector-emitter saturation voltage	$V_{CE(sat)}^*$	$I_C=3A, I_B=0.375A$			1.2	V
Base-emitter voltage	V_{BE}^*	$V_{CE}=4V, I_C=3A$			1.8	V
Transition frequency	f_T	$V_{CE}=5V, I_C=0.1A, f=10MHz$		30		MHz

*Pulse test: pulse width $\leq 300\mu s$, duty cycle $\leq 2.0\%$.

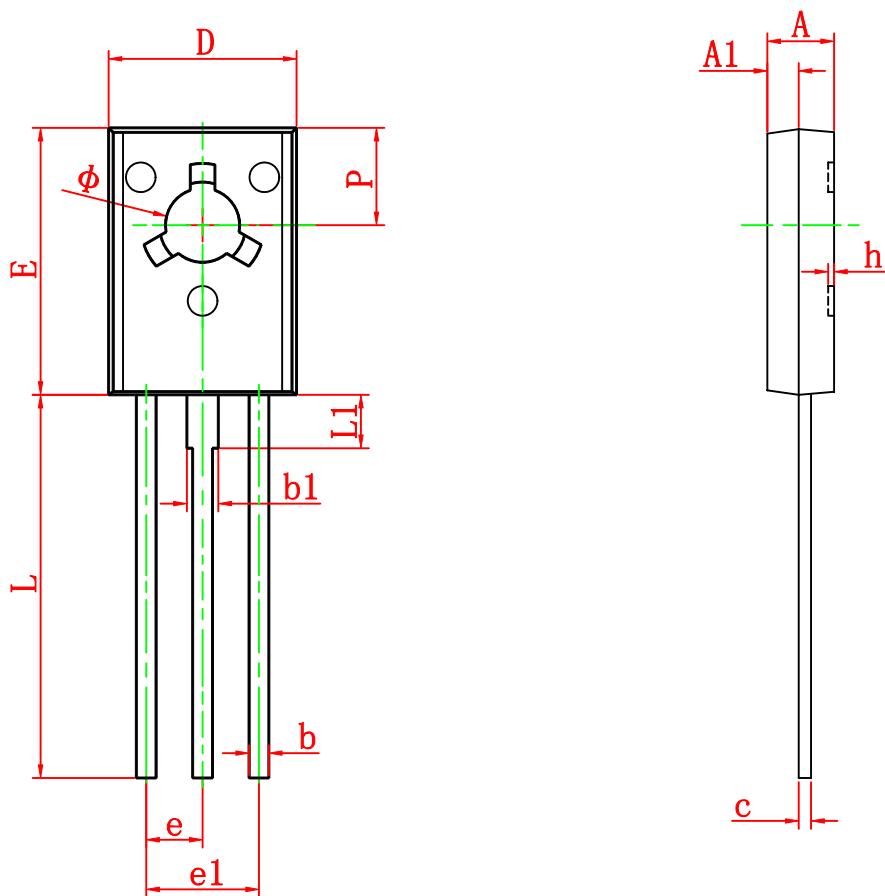
CLASSIFICATION OF $h_{FE(1)}$

RANK	P	Q	R
RANGE	40-90	70-150	120-250

Typical Characteristics



TO-126 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	2.500	2.900	0.098	0.114
A1	1.100	1.500	0.043	0.059
b	0.660	0.860	0.026	0.034
b1	1.170	1.370	0.046	0.054
c	0.450	0.600	0.018	0.024
D	7.400	7.800	0.291	0.307
E	10.600	11.000	0.417	0.433
e	2.290 TYP		0.090 TYP	
e1	4.480	4.680	0.176	0.184
h	0.000	0.300	0.000	0.012
L	15.300	15.700	0.602	0.618
L1	2.100	2.300	0.083	0.091
P	3.900	4.100	0.154	0.161
Φ	3.000	3.200	0.118	0.126

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