Features

Power Switching Applications

Package Marking and Ordering Information

Product ID	Pack	Packing Method	Qty(PCS)
ST13003-K	TO-126	Bulk	200

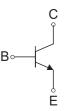
1.EMITTER

2. COLLECTOR

3.BASE

1

TO-126



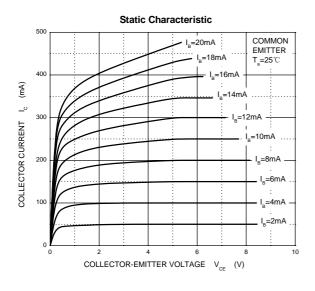
Maximum Ratings (Ta=25°C unless otherwise noted)

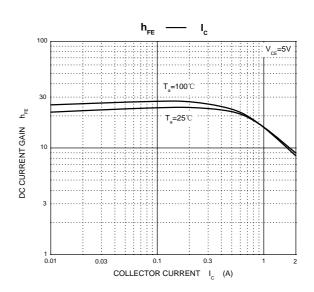
maximam Ratings (14–20 0 diliess otherwise noted)					
Symbol	Parameter	Value	Unit		
V _{CBO}	Collector-Base Voltage	700	V		
V _{CEO}	Collector-Emitter Voltage	500	V		
V _{EBO}	Emitter-Base Voltage	9	V		
Ic	Collector Current -Continuous	1.5	Α		
Pc	Collector Dissipation	1.25	W		
T _J , T _{stg}	Operation Junction and Storage Temperature Range				

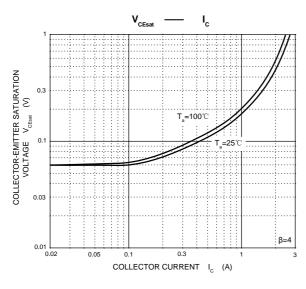
Electrical Characteristics(Ta=25°C unless otherwise specified)

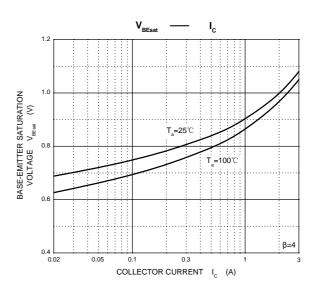
Parameter	symbol	Test conditions	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =5mA, I _E =0	700		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =10mA, I _B =0	500		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =2mA, I _C =0	9		V
Collector cut-off current	I _{CBO}	V _{CB} =680V,I _E =0		1	mA
Collector cut-off current	I _{CEO}	V _{CE} =410V,I _B =0		0.5	mA
Emitter cut-off current	I _{EBO}	V _{EB} =7V, I _C =0		1	mA
DO sussession	h _{FE1}	V _{CE} =5V, I _C = 0.2 A	20	40	
DC current gain	h _{FE2}	V _{CE} =5V, I _C = 1A	5		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =1A,I _B =0.2A		0.6	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =1A,I _B =0.2A		1.2	V
Transition frequency	f⊤	V _{CE} =10V,Ic=100mA, f =1MHz	5		MHz
Storage time	ts	I _C =250mA	2	4	μS

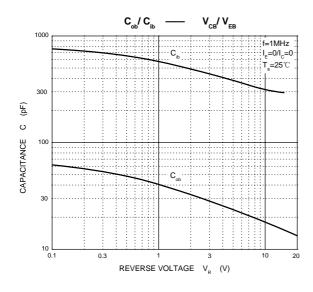
Typical Characteristics

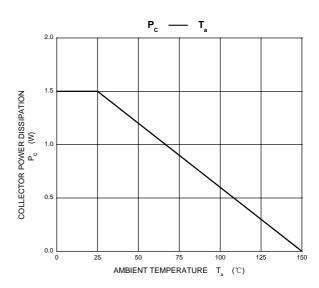






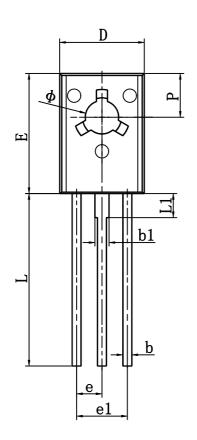


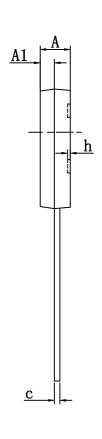






TO-126 Package Outline Dimensions





Symbol	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
Α	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	
С	0.450	0.600	0.018	0.024	
D	7.400	7.800	0.291	0.307	
Е	10.600	11.000	0.417	0.433	
е	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	
Р	3.900	4.100	0.154	0.161	
Ф	3.000	3.200	0.118	0.126	



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