

EV SERIES TRANSISTORS

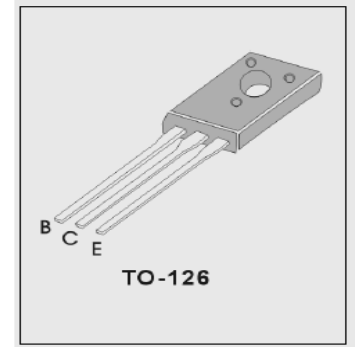
BJT100S

- **FEATURES:** ①HIGH VOLTAGE CAPABILITY ②HIGH SPEED SWITCHING ③WIDE SOA
- **APPLICATION:** ①FLUORESCENT LAMP ②ELECTRONIC BALLAST

● Absolute Maximum Ratings (Tc=25°C)

TO-126 NPN

PARAMETER	SYMBOL	VALUE	UNIT
Collector-Base Voltage	V _{CB0}	400	V
Collector-Emitter Voltage	V _{CEO}	200	V
Emitter-Base Voltage	V _{EBO}	9	V
Collector Current	I _c	2.5	A
Total Power Dissipation	P _c	30	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-65-150	°C



● Electronic Characteristics (Tc=25°C)

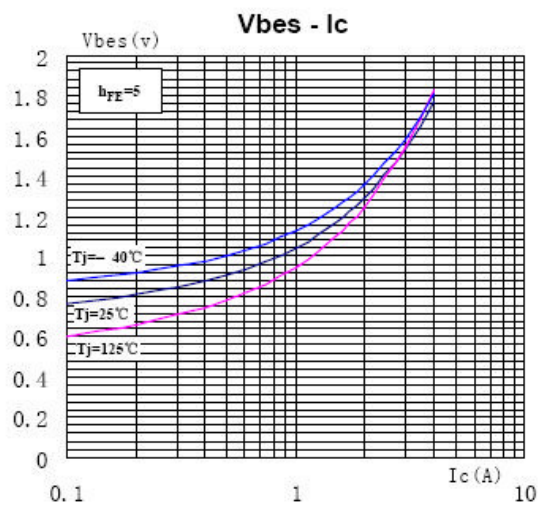
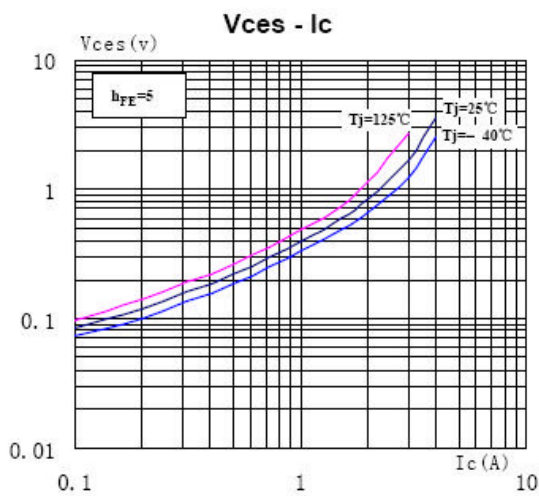
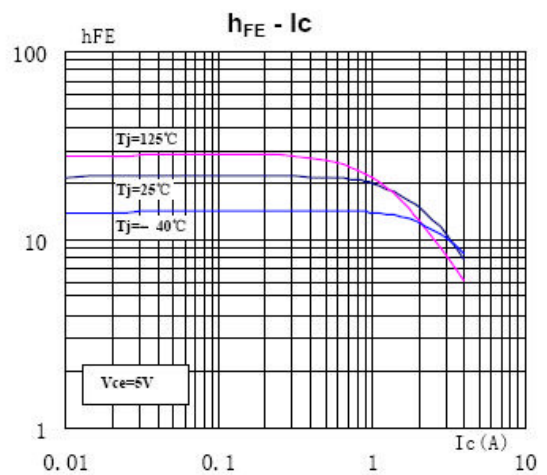
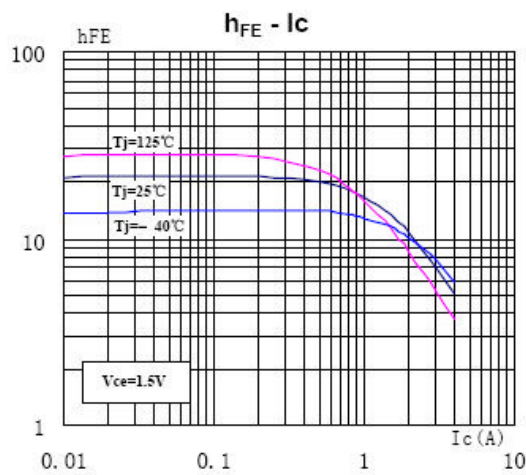
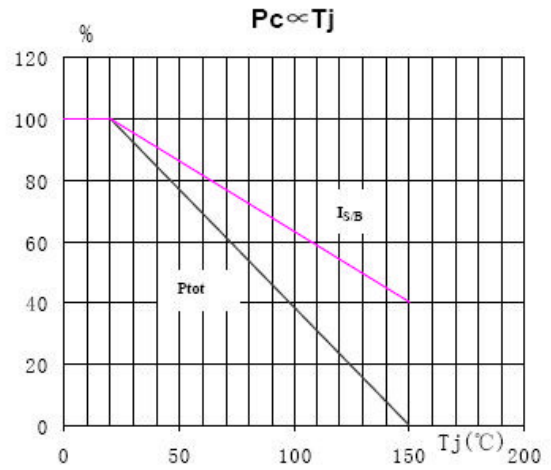
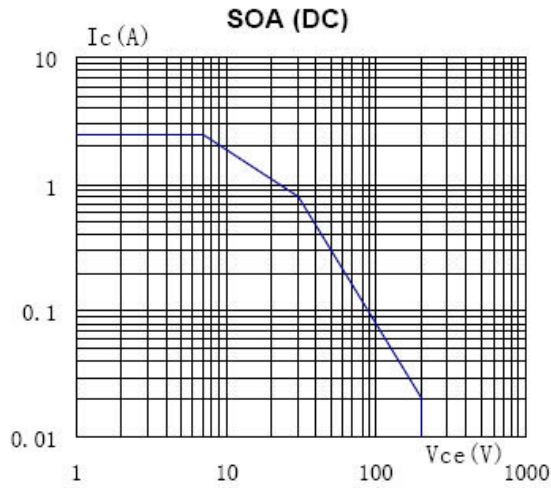
CHARACTERISTICS	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Collector-Base Cutoff Current	I _{CB0}	V _{CB} =400v		100	μ
Collector-Emitter Cutoff Current	I _{CEO}	V _{CE} =200v		250	μ
Collector-Emitter Voltage	V _{CEO}	I _c =10mA I _B =0	200		V
Emitter-Base Voltage	V _{EBO}	I _E =1mA I _c =0	9		V
Collector-Emitter Saturation Voltage	V _{cesat}	I _c =1.0A I _B =0.2A		1.0	V
		I _c =1.5A I _B =0.3A		1.2	V
Base-Emitter Saturation Voltage	V _{besat}	I _c =1.5A I _B =0.3A		1.2	V
DC Current Gain	HFE	V _{CE} =5v I _c =1mA	7		
		V _{CE} =5v I _c =0.1A	10	40	
		V _{CE} =5v I _c =2.5A	5		
Storage Time	T _s	V _{CC} =5V I _c =0.25A	1.5	3.5	μ

● CLASSIFICATION OF HFE AND TS

HFE	10-15	15-20	20-25	25-30
TS	1.5-2.0	2.0-2.5	2.5-3.0	3.0-3.5

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TO-126MECHANICAL DATA

SYMBOL	Min	Nom	Max	SYMBOL	Min	Nom	Max
A	2.3		2.8	L	15.3		16.5
B	1.0		1.2	L1			2.54
B1	0.8		1.0	P	3.0		3.2
b	0.65		0.88	P1		5.0	
c	.45		0.60	Q	3.6		4.4
D	10.5		11.1	Q1	0.9		1.5
E	7.2		7.8	R		0.5	
e		2.29					

