



EB SERIES TRANSISTORS

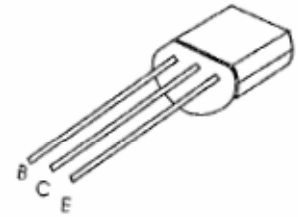
EB203D

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

● **Absolute Maximum Ratings (Tc=25°C)**

PARAMETER	SYMBOL	VALUE	UNIT
Collector–Base Voltage	V _{CB0}	600	V
Collector–Emitter Voltage	V _{CE0}	400	V
Emitter –Base Voltage	V _{EBO}	9	V
Collector Current	I _c	1.2	A
Total Power Dissipation	P _c	13	W
Junction Temperature	T _j	150	°C
Storage Temperature	T _{stg}	-65-150	°C

TO-92 NPN



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● **Electronic Characteristics (Tc=25°C)**

CHARACTERISTICS	SYMBOL	TEST CONDITION	MIN	MAX	UNIT
Collector–Base Cutoff Current	I _{CB0}	V _{CB} =600v		100	μA
Collector–Emitter Cutoff Current	I _{CE0}	V _{CE} =400v		250	μA
Collector–Emitter Voltage	V _{CE0}	I _c =10mA I _B =0	400		V
Emitter –Base Voltage	V _{EBO}	I _E =1mA I _c =0	9		V
Collector–Emitter Saturation Voltage	V _{cesat}	I _c =0.5A I _B =0.1A		0.5	V
		I _c =1A I _B =0.5A		0.6	V
Base–Emitter Saturation Voltage	V _{besat}	I _c =0.5A I _B =0.1A		1.2	V
DC Current Gain	HFE	V _{CE} =5v I _c =1mA	7		
		V _{CE} =10v I _c =0.1A	10	40	
		V _{CE} =5v I _c =1.2A	5		
Storage Time	T _s	V _{CC} =5V I _c =0.25A	1.5	3.5	μS
Falling Time	T _f			0.8	μS
Diode Forward Voltage	V _f	I _F =1.0A		2.0	V

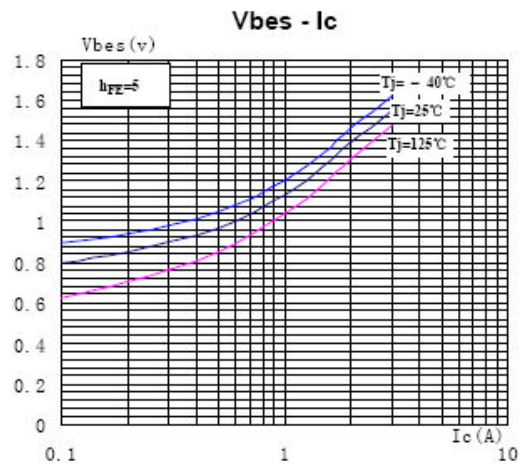
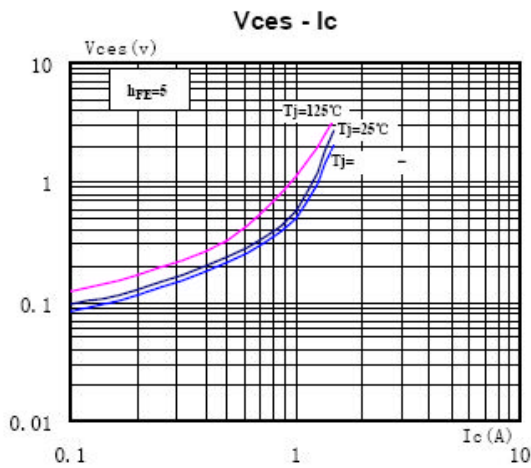
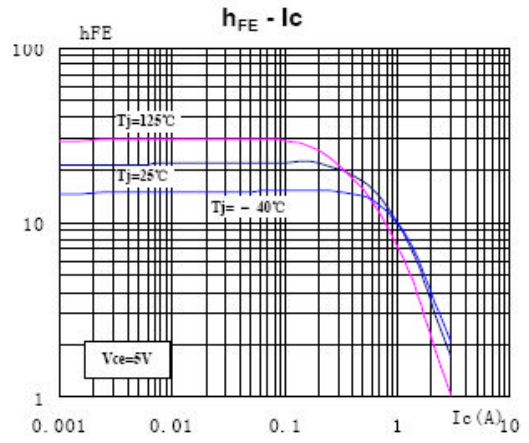
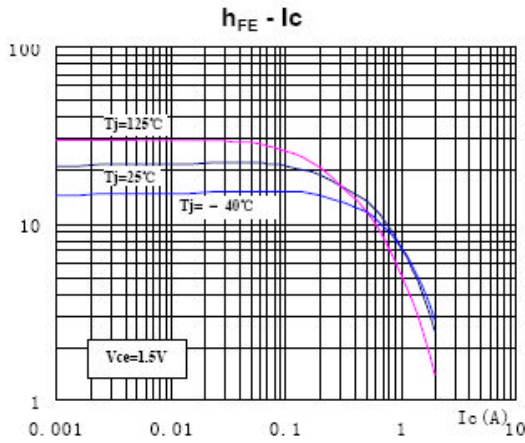
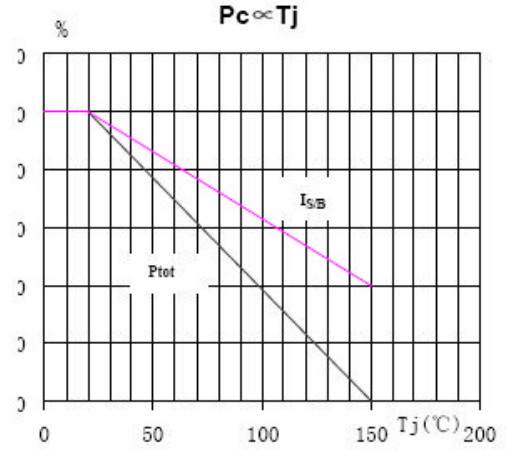
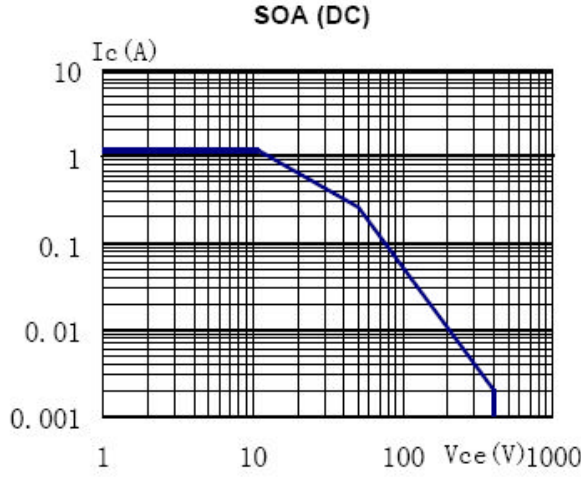
● **CLASSIFICATION OF HFE AND TS**

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-92 MECHANICAL DATA

SYMBOL	Min	Nom	Max
A	4.3		5.3
b	0.3		
c	0.3		
D	4.3		5.2
d	1.0		1.7
E	3.2		4.2
e		2.54	
e1		1.27	
L	12.7		
L1			2.0

