

EB SERIES TRANSISTORS**EB13003**

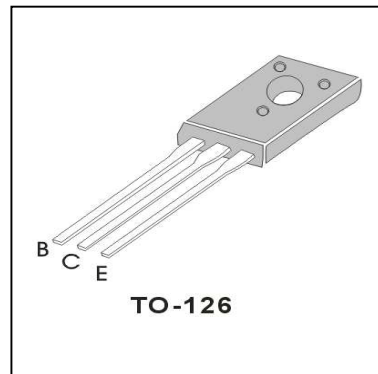
● **FEATURES:** ■ HIGH VOLTAGE CAPABILITY ■ HIGH SPEED SWITCHING ■ WIDE SOA

● **APPLICATION:** ■ FLUORESCENT LAMP ■ ELECTRONIC BALLAST ■ ELECTRONIC TRANSFORMER

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

TO-126

PARAMETER	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	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_{CBO}	$V_{CB}=600V$		100	μA
Collector-Emitter Cutoff Current	I_{CEO}	$V_{CE}=400V, I_B=0$		250	μA
Collector-Emitter Voltage	V_{CEO}	$I_C=10mA, I_B=0$	400		V
Emitter-Base Voltage	V_{EBO}	$I_E=1mA, I_C=0$	9		V
Collector-Emitter Saturation Voltage	V_{ce}	$I_C=0.2A, I_B=0.04A$		0.5	V
		$I_C=0.75A, I_B=0.25A$		0.7	
		$I_C=1.5A, I_B=0.5A$		2.0	
Base-Emitter Saturation Voltage	V_b	$I_C=0.75A, I_B=0.25A$		1.2	V
DC Current Gain	h_{FE}	$V_{CE}=5V, I_C=10mA$	8		
		$V_{CE}=5V, I_C=0.5A$	10	40	
		$V_{CE}=5V, I_C=1.0A$	8		
Storage Time	t_s	$V_{CC}=250V,$		3	μS
Falling Time	t_f	$I_C=5I_B$ $I_{B1} = -I_{B2}=0.2A$		0.8	