

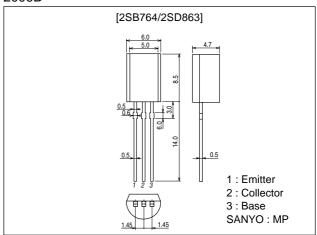
2SB764/2SD863

Voltage Regulator, Relay Lamp Driver Electrical Equipment Applications

Package Dimensions

unit:mm

2006B



(): 2SB764

Specifications

Absolute Maximum Ratings at Ta = 25°C

Parameter	Symbol	Conditions	Ratings	Unit
Collector-to-Base Voltage	V _{CBO}		(-)60	V
Collector-to-Emitter Voltage	V _{CEO}		(-)50	V
Emitter-to-Base Voltage	V _{EBO}		(–)5	V
Collector Current	IC		(–)1	Α
Collector Current (Pulse)	I _{CP}		(-)2	Α
Collector Dissipation	PC		0.9	W
Junction Temperature	Tj		150	°C
Storage Temperature	Tstg		-55 to +150	°C

Electrical Characteristics at Ta = 25°C

Parameter	Symbol	Conditions	Ratings			Unit
Farameter Symbo		Conditions		typ	max	
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)50V, I _E =0			(-)1	μA
Emitter Cutoff Current	IEBO	I _{EBO} V _{EB} =(-)4V, I _C =0			(–)1	μA
DC Current Gain	h _{FE} 1	$V_{CE}=(-)2V, I_{C}=(-)50mA$			320*	
DC Current Gain	h _{FE} 2	V _{CE} =(-)2V, I _C =(-)1A	30			
Gain-Bandwidth Product	fT	V _{CE} =(-)10V, I _C =(-)50mA		150		MHz
Output Canacitance	C .	V _{CB} =(-)10V, f=1MHz		(20)		pF
Output Capacitance	C _{ob}			12		pF

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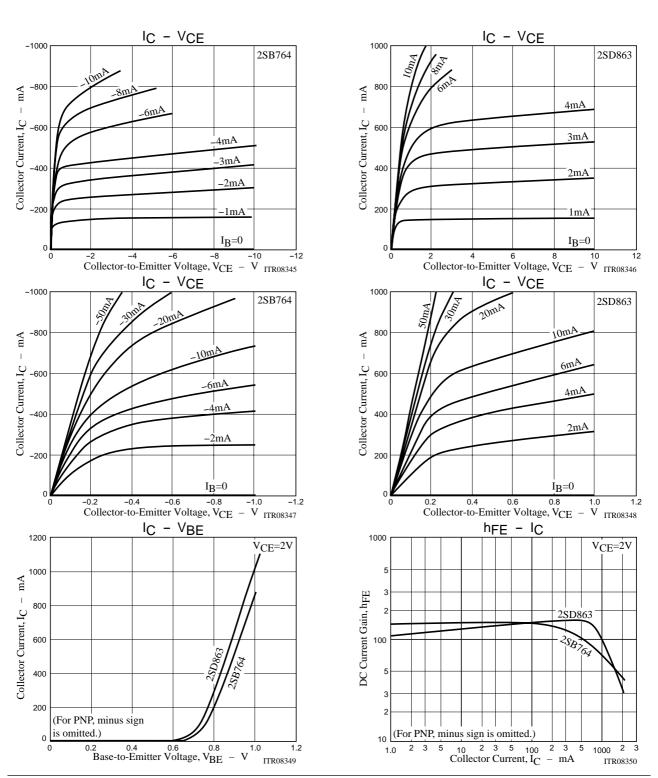
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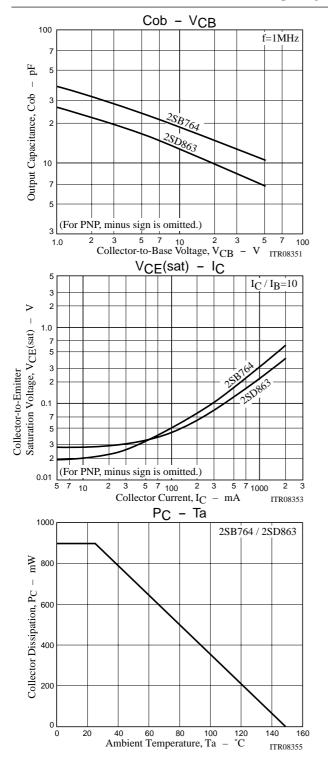
Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	Offic
ollector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)500mA, I _B =(-)50mA		(-0.2)	(-0.7)	٧
				0.15	0.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)500mA, I _B =(-)50mA		(-)0.85	(-)1.2	V
Collector-to-Base Breakdown Voltage	V _(BR) CBO	$I_{C}=(-)10\mu A, I_{E}=0$	(–)60			٧
Collector-to-Emitter Breakdown Voltage	V(BR)CEO	I _C =(−)1mA, R _{BE} =∞	(-)50			٧
Emitter-to-Base Breakdown Votage V _{(BR)EBO}		I _E =(-)10μA, I _C =0	(–)5			V

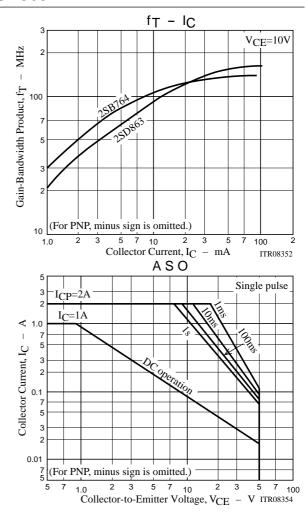
 $[\]mbox{\ast}$: The SB764/2SD863 are classified by 50mA \mbox{h}_{FE} as follows :

Rank	D	Е	F		
hFE	60 to 120	100 to 200	160 to 320		



2SB764/2SD863





2SB764/2SD863

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