

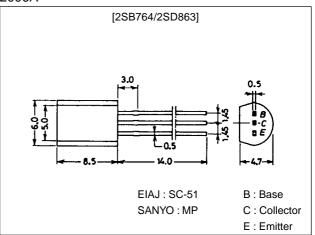
2SB764/2SD863

Voltage Regulator, Relay Lamp Driver Electrical Equipment Applications

Package Dimensions

unit:mm

2006A



(): 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

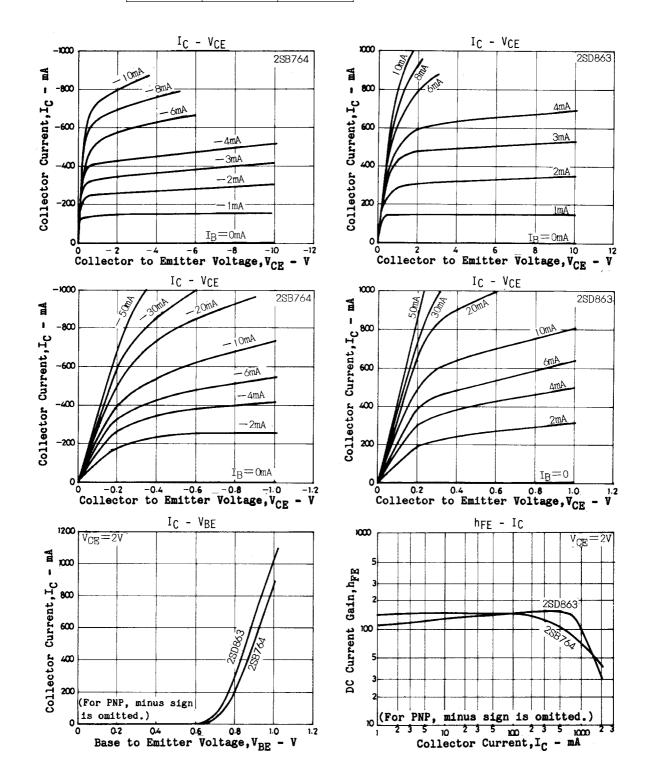
Electrical Characteristics at Ta = 25°C

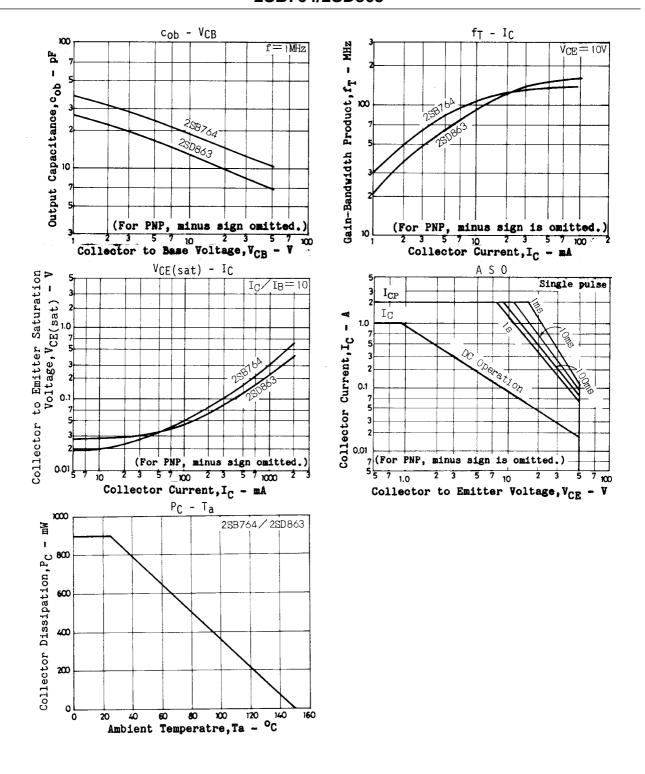
Parameter	Cumphal	Conditions		Ratings		
	Symbol		min	typ	max	Unit
Collector Cutoff Current	I _{CBO}	V _{CB} =(-)50V, I _E =0			(-)1	μΑ
Emitter Cutoff Current	I _{EBO}	V _{EB} =(-)4V, I _C =0			(-)1	μA
DC Current Gain	h _{FE} 1	V _{CE} =(-)2V, I _C =(-)50mA	60*		320*	
	h _{FE} 2	V _{CE} =(-)2V, I _C =(-)1A	30			
Gain-Bandwidth Product	fT	V _{CE} =(-)10V, I _C =(-)50mA		150		MHz
Output Capacitance	C _{ob}	V _{CB} =(-)10V, f=1MHz		(20)		pF
				12		pF
Collector-to-Emitter Saturation Voltage	V _{CE(sat)}	I _C =(-)500mA, I _B =(-)50mA		(-0.2)	(-0.7)	V
				0.15	0.5	V
Base-to-Emitter Saturation Voltage	V _{BE(sat)}	I _C =(-)500mA, I _B =(-)50mA		(-)0.85	(-)1.2	V

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Parameter	Symbol	Conditions	Ratings			Unit
	Symbol		min	typ	max	Offic
Collector-to-Base Breakdown Voltage	V(BR)CBO	I _C =(-)10μΑ, I _E =0	(–)60			V
Collector-to-Emitter Breakdown Voltage	V _(BR) CEO	I _C =(-)1mA, R _{BE} =∞	(–)50			V
Emitter-to-Base Breakdown Votage	V(BR)EBO	I _E =(-)10μA, I _C =0	(–)5			V

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





2SB764/2SD863

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