BS08D

TRIGGER APPLICATION LEAD MOUNT TYPE

DESCRIPTION

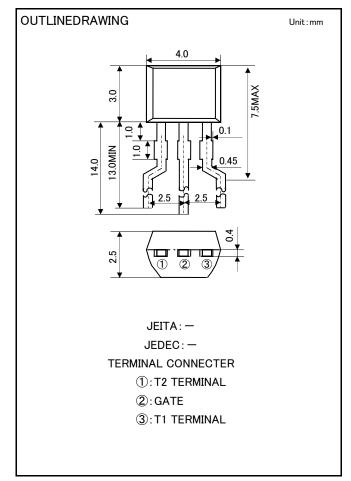
BS08D is a silicon planer transistor, bilateral switching integrated circuit. It is suitable for trigger application of thyristor.

FEATURE

- ●Low switching voltage Vs=7~9V
- Good switching voltage temperature coefficient 0.01%/°C
- •With gate electrode. It is easy for control and synchronism of switching.

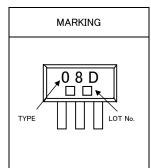
APPLICATION

Trigger circuit of thyristor triac oscillator, timer.



MAXIMUM RATINGS (Ta=25°C)

Parameter	Symbol	Conditions	Ratings	Unit
DC on current	ĪΤ	Ta=25°C	175	mA
Repetitive peak on-current	_	1% duty, tw=10 μ s, Ta=100°C	1	Α
Not repetitive peak on-current	-	tw=10 μ s, Ta=25°C	2	Α
On-state dissipation	Р	Ta=25°C	450	mW
DC gate current	IG	_	5	mA
Junction temperature	Tj	-	+150	°C
Storage temperature	Tstg	-	−55 ~ +150	°C



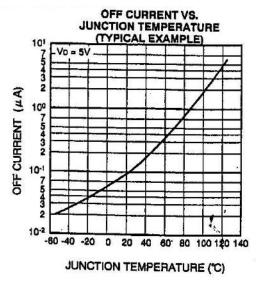
${\tt ELECTRICAL\ CHARACTERISTICS}({\tt Ta=25^{\circ}C})$

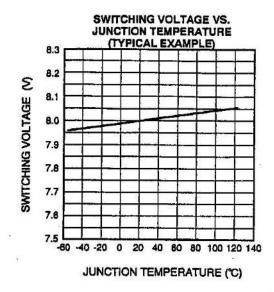
Parameter	Symbol	Test conditions	Limits			11.25
			Min	Тур	Max	Uniit
Switching voltage	Vs	Ta=25°C	7	8	9	V
Switching current	Is	Ta=25°C	-	_	200	μΑ
Switching voltage difference	VS1-VS2	Ta=25°C	_	_	0.5	V
Switching current difference	IS1-IS2	Ta=25°C	-	_	100	μΑ
Holding current	ΙH	Ta=25°C	-	_	1.5	mA
Off current	ID	VD=5V, Ta=25°C	-	_	1.0	μΑ
		VD=5V, Ta=85°C	_	_	10	
Switching voltage temperature coefficient	_	Ta=-55°C~+85°C	-	±0.01	-	%/°C
On voltage	VT	IT=175mA, Ta=25°C	-	_	1.4	V
Gate trigger current	IGT	VD=5V, Ta=25°C	10	_	200	μΑ
Gate not trigger voltage	VGD	VD=5V, Ta=85°C	0.2	-	-	V

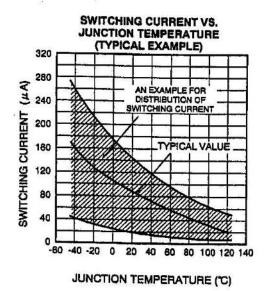
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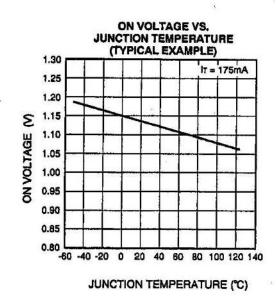
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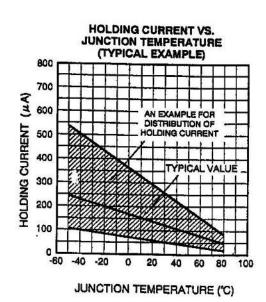
PERFORMANCE CURVES

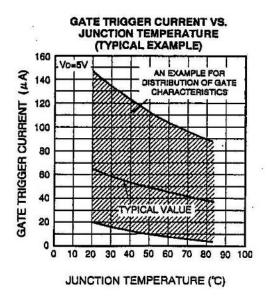






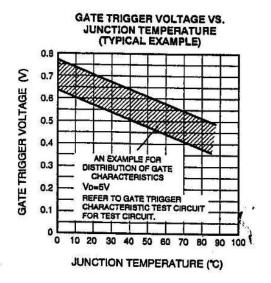




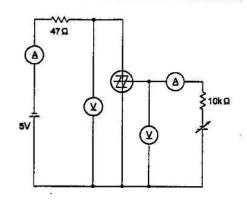


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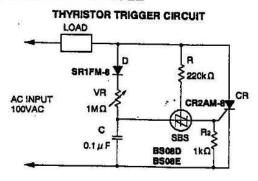
TRIGGER APPLICATION LEAD MOUNT TYPE

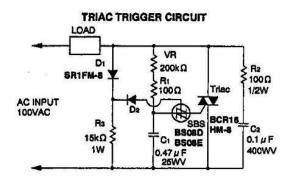


GATE TRIGGER CHARACTERISTIC TEST CIRCUIT



APPLICATION EXAMPLE





The above circuit is a triac phase control circuit making use of an SBS. In this circuit, an SBS gate is used to reduce the hysteresis characteristics. Thus, by using the variable resistance, phase control is possible over the wide range of 10 to 160 °C. Therefore, this circuit is widely usable in such applications as lighting control circuits, electric heater control, and other load control applications.



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