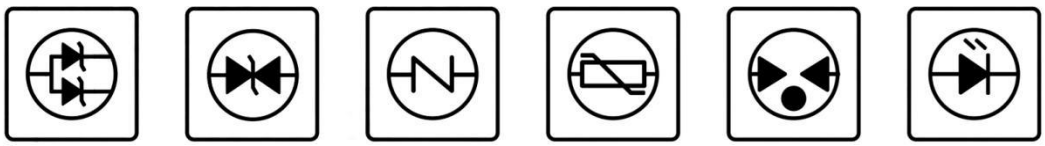
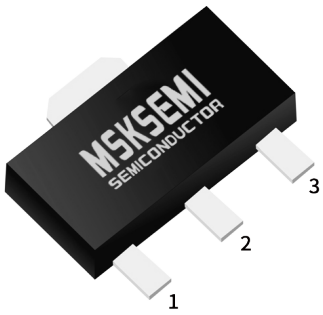
MSKSEMI
SEMICONDUCTOR



Product data sheet



SOT-89

Package	Pin assignment		
	1	2	3
All	T1	T2	G

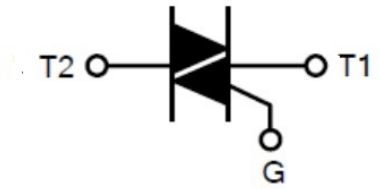
FEATURES

This device of sensitive TRIAC product is a glass passivated device, has a low gate trigger current, high stability in gate trigger current to variation of operating temperature and high off state voltage.

APPLICATIONS

This device is suitable for low power AC switching application,phase control application such as fan speed and temperature modulation control, lighting control and static switching relay.

SYMBOL:



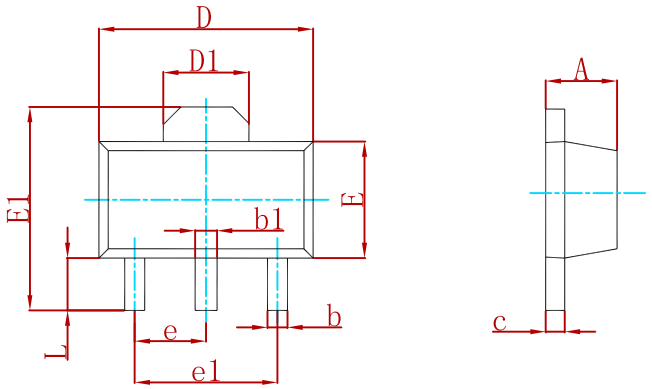
ABSOLUTE MAXIMUM RATINGS (TJ=25°C)

PARAMETER	SYMBOL	VALUE		UNIT
Repetitive Peak Off-State Voltages	$V_{DRM,}$ V_{RRM}	600		V
RMS on-State Current	$I_{T(RMS)}$	2		A
Non-Repetitive Peak On-State Current	I_{TSM}	20		A
I^2t for fusing	I^2t	2.6		A^2s
Repetitive rate of rise of on-state current after triggering	dIT/dt	I	50	A/uS
		II	50	
		III	50	
		IV	10	
Peak gate current	I_{GM}	1.8		A
Peak Gate Power	P_{GM}	4		W
Average Gate Power	$P_{G(AV)}$	0.5		W
Operating junction temperature	T_J	+125		℃
Storage Temperature	T_{STG}	-40 ~ +150		℃

ELECTRICAL CHARACTERISTICS (TJ=25°C)

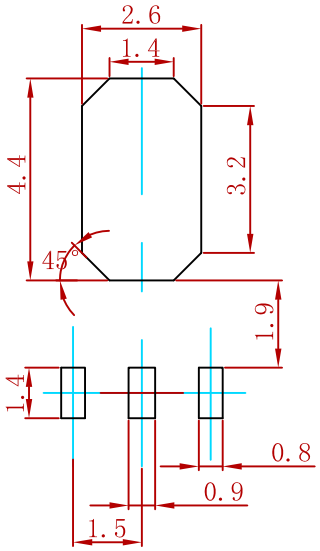
PARAMETER	SYMBOL	TEST CONDITIONS		MIN	MAX	UNITS
Peak Repetitive Forward or Reverse Blocking Current	I_{DRM} I_{RRM}	V_{AK} = Rated V_{DRM} or V_{RRM};			10	uA
Gate Trigger Current	I_{GT}	V_D=12V, R_L=100Ω	I		10	mA
			II		10	
			III		10	
			IV		25	
Gate Trigger Voltage	V_{GT}	V_D=12V, I_T=100mA			1.5	V
Peak Forward On-State Voltage	V_{TM}	IT=4.0A,			1.7	V
Latch Current	I_L	V_D=12V I_G=0.1A,	I		15	mA
			II		15	
			III		15	
			IV		20	
Holding Current	I_H	V_D=12V ,IG=0.1A			15	mA
Gate Non-Trigger Voltage	V_{GD}	V_D=V_{DRM}		0.2		V
Critical Rate of Rise of Off-State Voltage	dV/dt	V_D=67%V_{DRM}, R_{GK}=1kΩ,		20		V/μs

PACKAGE MECHANICAL DATA



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.400	1.600	0.055	0.063
b	0.320	0.520	0.013	0.020
b1	0.400	0.580	0.016	0.023
c	0.350	0.440	0.014	0.017
D	4.400	4.600	0.173	0.181
D1	1.550 REF.		0.061 REF.	
E	2.300	2.600	0.091	0.102
E1	3.940	4.250	0.155	0.167
e	1.500 TYP.		0.060 TYP.	
e1	3.000 TYP.		0.118 TYP.	
L	0.900	1.200	0.035	0.047

Suggested Pad Layout



Note:
1.Controlling dimension:in millimeters.
2.General tolerance:±0.05mm.
3.The pad layout is for reference purposes only.

REEL SPECIFICATION

P/N	PKG	QTY
BT134-600-MS	SOT-89	1000

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