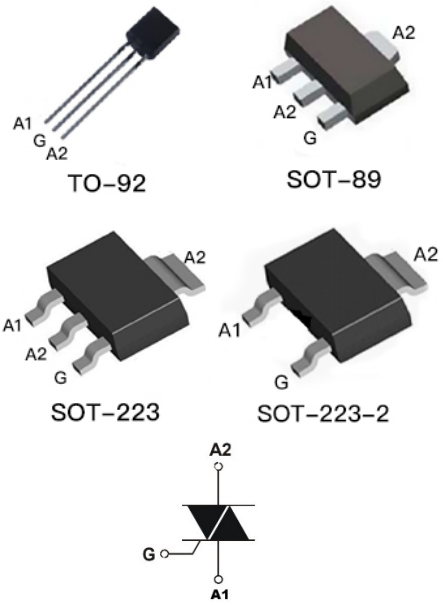
Description

Available in high power packages, the suitable for general purpose AC switching.

Features

- Good performance at dv/dt and reliability
- Low thermal resistance with clip bonding
- High commutation capability



Applications

- General purpose AC switch control
- Control loads in Motor, Fan, and Pump.
- Solenoid drivers
- LED Dimming
- Inrush current limiting circuits

Absolute Maximum Ratings (T_A=25℃)

Rating		Symbol	Value
Peak repetitive off-state voltage (T_J = -40 to +125℃, Full sine wave, 50Hz to 60Hz; Gate open) (Note 1)		V_{DRM} V_{RRM}	800V
On-state RMS current (full sine wave)		$I_{T(RMS)}$	1A
Non repetitive surge peak on-state current (full cycle, T initial = 25℃)	F=60Hz, t=16.7ms	I_{TSM}	9A
I^2t Value for fusing	t_P=10ms	I^2t	0.6A^2s
Non repetitive surge peak off-state voltage	t_P=10ms, T_J=25℃	V_{DSM}/V_{RSM}	V_{DRM}/V_{RRM}+100V
Peak gate current	t_P=20μs, T_J=125℃	I_{GM}	1A
Average gate power dissipation	T_J=150℃	$P_{G(AV)}$	0.5W
Operating junction temperature ranges		T_J,T_{STG}	-40℃ to +125℃
Storage junction temperature range		T_{STG}	-40℃ to +150℃

Note:

1. V_{DRM} and V_{RRM} for all types can be applied on a continuous basis.
   Blocking voltages shall not be tested with a constant current source such that the voltage ratings of the devices are exceeded.

Electrical Characteristics (T_J=25℃, unless otherwise specified)

Parameter		Symbol	Value
V_D=12V, R_L=100Ω	I-II-III	$I_{GT\ Max.}$	10mA
	ALL	$V_{GT\ Max.}$	1.1V
V_D=V_{DRM}, R_L=100Ω, T_J=125℃	ALL	$V_{GD\ Min.}$	0.25V
I_T=100mA		$I_{H\ Max.}$ (1)	20mA
I_G=1.2I_{GT}	I-III	$I_{L\ Max.}$	20mA
	II		40mA
V_D=67%V_{DRM} gate open, T_J=125℃		dv/dt $_{Min.}$ (1)	100V/μs

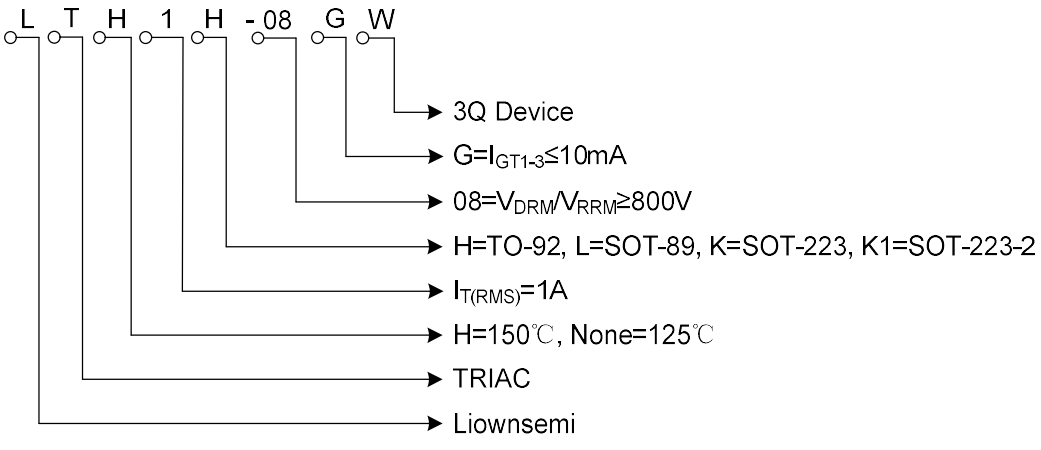
1. for both polarities of A2 referenced to A1

Static Characteristics

Test conditions	Symbol	Value
I_{TM}=1A, t_P=380μs, T_J=25℃	$V_{T\ Max.}$ (1)	1.7V
Threshold voltage, T_J=125℃	$V_{t0\ Max.}$ (1)	0.95V
Dynamic resistance, T_J=125℃	$R_{D\ Max.}$ (1)	420mΩ
V_{DRM}=V_{RRM}, T_J=25℃	$I_{DRM\ Max.}$	5μA
V_{DRM}=V_{RRM}, T_J=125℃	$I_{RRM\ Max.}$	0.5mA

1. for both polarities of A2 referenced to A1

Part Number Code

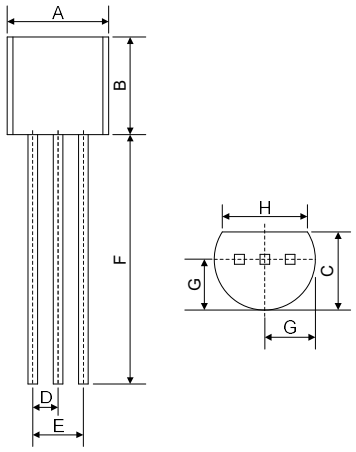


Ordering Information

Part Number	Marking	Package
LTH1H-08GW	LTH1H-08GW	TO-92
LTH1L-08GW	LTH1L-08GW	SOT-89
LTH1K-08GW	LTH1K-08GW	SOT-223
LTH1K1-08GW	LTH1K1-08GW	SOT-223-2

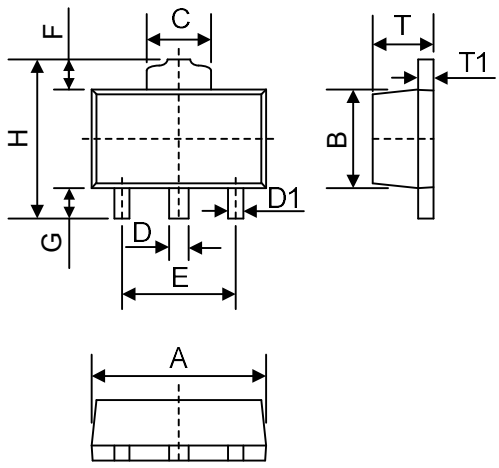
Dimensions

TO-92



Symbol	Millimeters	
	Min.	Max.
A	4.45	5.20
B	4.32	5.33
C	3.175	4.191
D	1.143	1.397
E	2.413	2.667
F	12.70	-
G	2.04	2.66
H	3.43	-

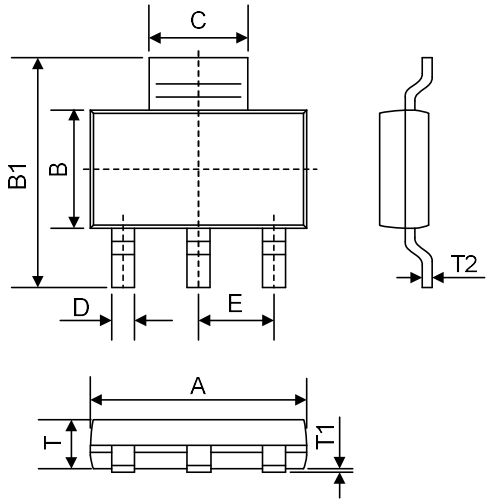
SOT-89



Symbol	Millimeters	
	Min.	Max.
A	4.40	4.60
B	2.40	2.60
C	1.65	1.75
D	0.43	0.53
D1	0.35	0.45
E	2.95	3.05
F	0.82	0.83
G	0.82	0.83
H	4.05	4.25
T	1.40	1.60
T1	0.35	0.45

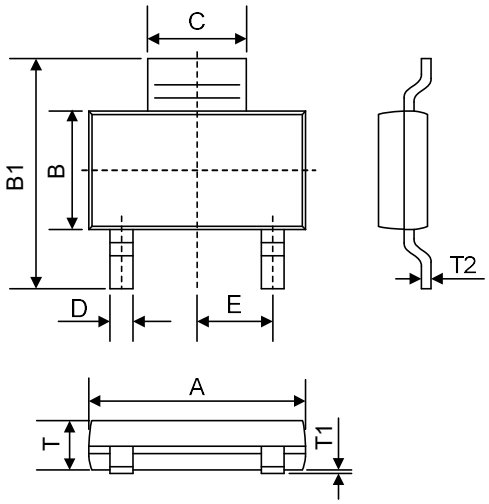
Dimensions

SOT-223



Symbol	Millimeters	
	Min.	Max.
A	6.40	6.60
B	3.30	3.70
B1	6.80	7.20
C	2.90	3.10
D	0.65	0.75
E	2.30 BSC	
T	1.50	1.70
T1	0.02	0.10
T2	0.20	0.30

SOT-223-2



Symbol	Millimeters	
	Min.	Max.
A	6.40	6.60
B	3.40	3.60
B1	6.85	7.15
C	2.95	3.05
D	0.66	0.76
E	2.286 BSC	
T	1.45	1.65
T1	0.03	0.15
T2	0.20	0.35

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