



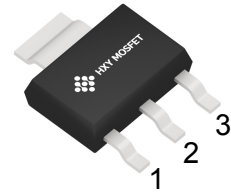
Features

Glass passivated triacs in a plastic intended for use in applications requiring high bidirectional transient and blocking voltage capability and high thermal cycling performance. Typical applications include motor control, industrial and domestic lighting, heating and static switching.

1. ANODE

2. ANODE

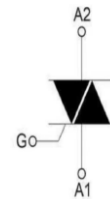
3. GATE



SOT-223

Package Marking and Ordering Information

Product ID	Pack	Packing Method	Qty(PCS)
BT134W-600E	SOT-223	Tape and Reel	200



Maximum Ratings (Ta=25°C unless otherwise noted)

Symbol	Parameter	Conditions	Value	Unit
V_{DRM} / V_{RRM}	repetitive peak off-state voltage		600	V
$I_{T(RMS)}$	RMS on-state current		2	A
I_{TSM}	Non repetitive surge peak on-state current	$t = 2ms \ T_j = 25^\circ C$	20	A
		$t = 16.7ms \ T_j = 25^\circ C$	16	
$I^2 t$	$I^2 t$ for fusing	$t = 10 \ ms$	2	$A^2 s$
di/dt	Critical-rate of rise of commutation current	I II III IV $I_G = 2I_{GT} \leq 100ns$ $F = 120Hz$	50 10	A/us
I_{GM}	Peak Gate Current	$T_j = 125^\circ C \ t_p = 20\mu s$	0.6	A
V_{GM}	Peak gate voltage	$T_j = 125^\circ C$	1	V
P_{GM}	Peak gate power	$T_j = 125^\circ C$	1	W
$P_{G(AV)}$	Average Gate Power Dissipation	$T_j = 125^\circ C$	0.5	W
T_j	Junction Temperature	-	-40 ~ 125	°C
T_{stg}	Storage Temperature	-	-40 ~ 150	°C

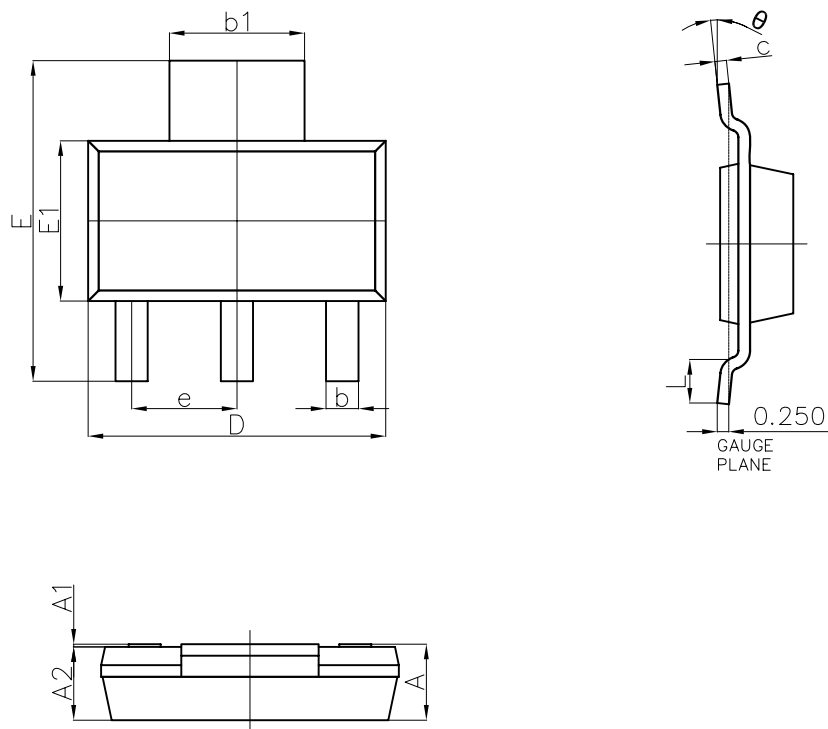


Electrical Characteristics (Ta=25°C unless otherwise specified)

Parameter		Symbol	Test conditions		Min	Typ	Max	Unit
Repetitive Peak Off-State Current Repetitive Peak Reverse Current		I _{DRM} , I _{RRM}	V _{DRM} = V _{RRM} T _j = 25 °C				5	μA
			V _{DRM} = V _{RRM} T _j = 125 °C				1	mA
Gate non-trigger voltage		V _{GD}	V _D = 1/2V _{DRM}		0.2			V
On-state voltage		V _{TM}	I _T = 2A, t _p = 380us				1.65	V
Gate trigger current	I	I _{GT}	T ₂ (+), G(+)	V _D = 12V R _L = 100Ω			3	mA
	II		T ₂ (+), G(-)				6	
	III		T ₂ (-), G(-)				4	
	IV		T ₂ (-), G(+)				10	
Gate trigger voltage	I	V _{GT}	T ₂ (+), G(+)	V _D = 12V R _L = 100Ω		0.8	2	V
	II		T ₂ (+), G(-)			0.8	2	
	III		T ₂ (-), G(-)			0.8	2	
	IV		T ₂ (-), G(+)			0.8	2.5	
Holding current		I _H	V _D = 12V, I _{GT} = 100mA				30	mA
Critical-rate of rise of commutation voltage		dV/dt	V _{DM} = 67%V _{DRM} Gate open T _j = 125 °C				50	V/us
Rate of change of commutating voltage		(dI/dt) _c	V _{DM} = 400V T _j = 125 °C (dI/dt) _c = 5.4A/ms Gate open				20	V/us
Turn-on time		t _{gt}	I _{TM} = 16A , V _{DM} = V _{DRM(MAX)} I _G = 0.1A, dI _G dt = 5A/uS				2	us



SOT-223 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	—	1.800	—	0.071
A1	0.020	0.100	0.001	0.004
A2	1.500	1.700	0.059	0.067
b	0.660	0.840	0.026	0.033
b1	2.900	3.100	0.114	0.122
c	0.230	0.350	0.009	0.014
D	6.300	6.700	0.248	0.264
E	6.700	7.300	0.264	0.287
E1	3.300	3.700	0.130	0.146
e	2.300(BSC)		0.091(BSC)	
L	0.750	—	0.030	—
θ	0°	10°	0°	10°



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