

LB1257

Allowable Operating Ratings at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings	Unit
Supply voltage	V_{CC}		2.3 to 6.0	V
Input H-level voltage	V_{IH}	$I_{OUT} = 200\text{mA}$	2.3 to 7.0	V
Input L-level voltage	V_{IL}	$I_{OUT} \leq 100\mu\text{A}$	-0.3 to +0.7	V

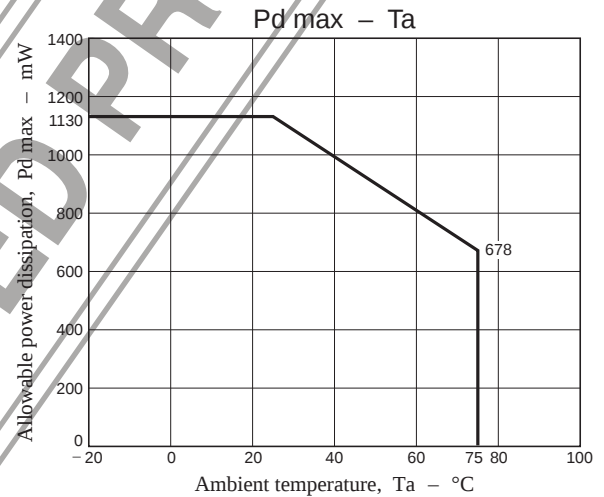
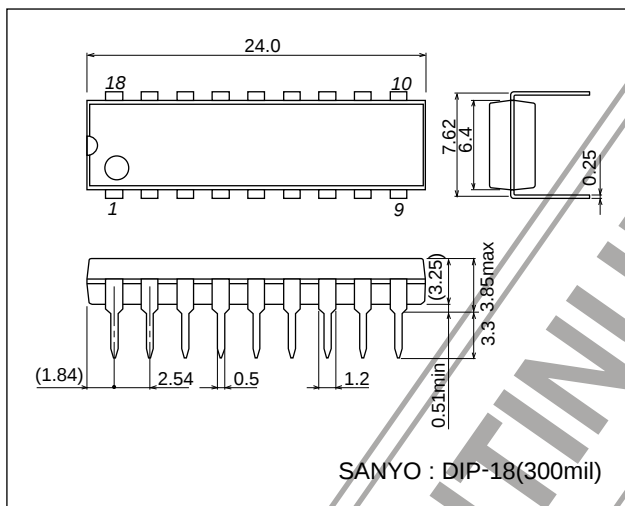
Electrical Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output voltage	V_{OUT1}	$V_{IN} = V_{CC} = 2.3\text{V}$, $I_{OUT} = 200\text{mA}$			0.4	V
	V_{OUT2}	$V_{IN} = 3.0\text{V}$, $V_{CC} = 3.5\text{V}$, $I_{OUT} = 200\text{mA}$			0.25	V
	V_{OUT3}	$V_{IN} = 5.5\text{V}$, $V_{CC} = 6.0\text{V}$, $I_{OUT} = 400\text{mA}$			0.5	V
Output sustain voltage	$V_{O(sus)}$	V_{IN} : open, $I_{OUT} = 400\text{mA}$, $t \leq 10\mu\text{s}$	10			V
Output leakage current	I_{OFF}	$V_{IN} = 0.7\text{V}$, $V_{CC} = 6.0\text{V}$, $V_{OUT} = 6.0\text{V}$			100	μA
Input current	I_{IN}	$V_{IN} = 6.0\text{V}$, $I_{OUT} = 0$			1.0	mA
Spark killer diode reverse current	$I_{leak(S)}$	$V_{OUT} = 0\text{V}$, $V_{CC} = 6.0\text{V}$			30	μA
Spark killer diode forward voltage	$V_F(S)$	$I_F(S) = 400\text{mA}$			3.0	V

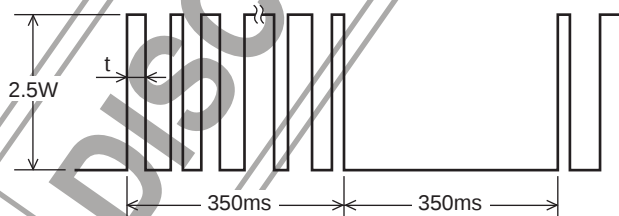
Package Dimensions

unit : mm (typ)

3007B

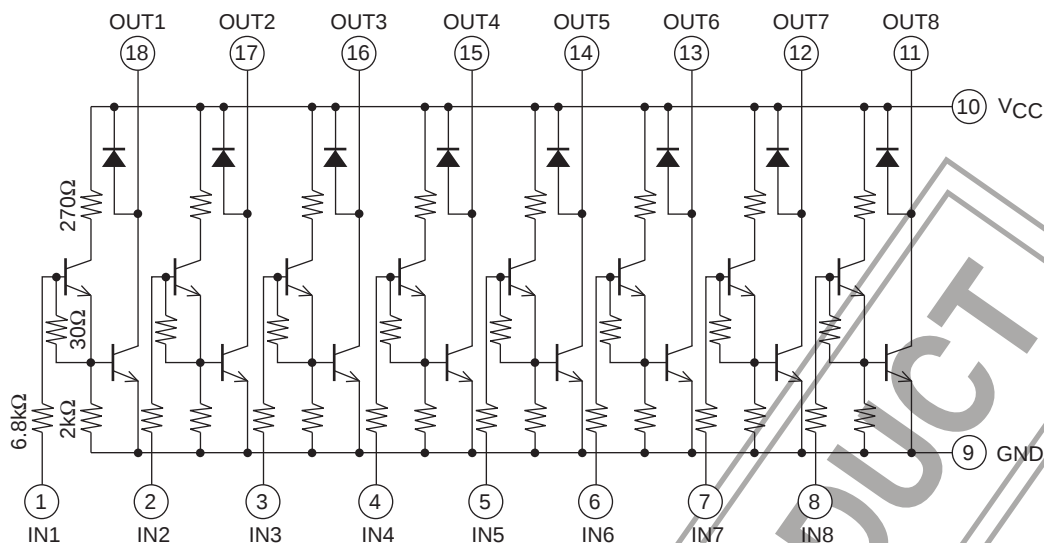


The loss of the following waveform is allowed at $T_a = 60^\circ\text{C}$



$t < 35\text{ms}$ and 40% duty of 350ms ($P_d = 0.5\text{W}$)

Equivalent Circuit



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