

LB1205M

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

Parameter	Symbol	Conditions	Ratings	Unit
Supply voltage range	V_{DD}		3.5 to 7.0	V
Input "ON" level voltage	V_{INon}	$V_{IN} \geq \text{GND}$, $I_O = 1.0\text{A}$	$V_{DD}-7.0$ to $V_{DD}-2.6$	V
Input "OFF" level voltage	V_{INoff}	$I_O \leq 30\mu\text{A}$	$V_{DD}-0.3$ to $V_{DD}+10.0$	V

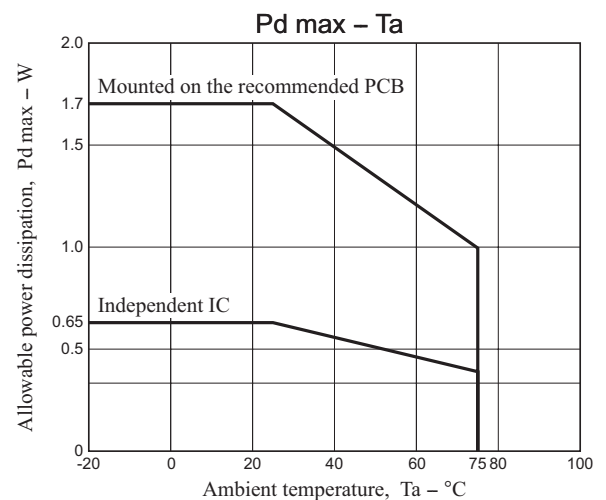
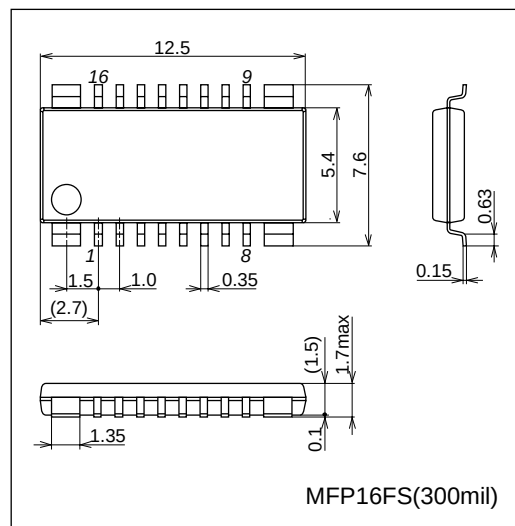
Electrical Characteristics at $T_a = 25^\circ\text{C}$, $V_{DD} = 5\text{V}$

Parameter	Symbol	Conditions	Ratings			Unit
			min	typ	max	
Output saturation voltage	V_{Osat1}	$V_{IN} = V_{DD}-5.0\text{V}$, $I_O = 0.5\text{A}$			1.2	V
	V_{Osat2}	$V_{IN} = V_{DD}-5.0\text{V}$, $I_O = 1.0\text{A}$			1.5	V
	V_{Osat3}	$V_{IN} = V_{DD}-5.0\text{V}$, $I_O = 1.5\text{A}$			2.0	V
Output sustain voltage	V_{Osus}	$I_O = 100\text{mA}$	65			V
Input current	I_{IN}	$V_{DD} = 7.0\text{V}$, $V_{IN} = V_{DD}-7.0\text{V}$			1.0	mA
Spark killer diode forward voltage	V_{FS}	$I_{FS} = 1.5\text{A}$			3.0	V
Spark killer diode reverse current	I_{RS}	$V_{CC} = 62\text{V}$, $V_O = 0\text{V}$			30	μA

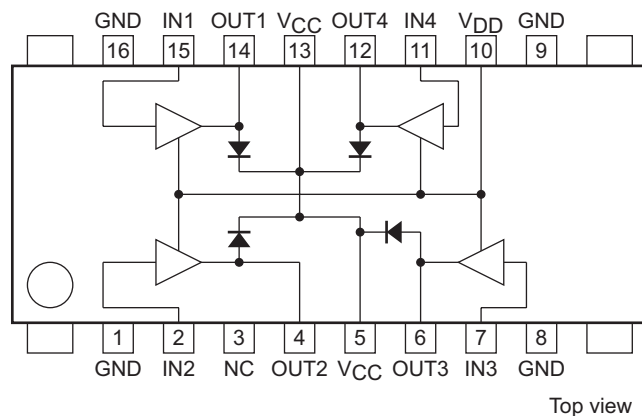
Package Dimensions

unit : mm (typ)

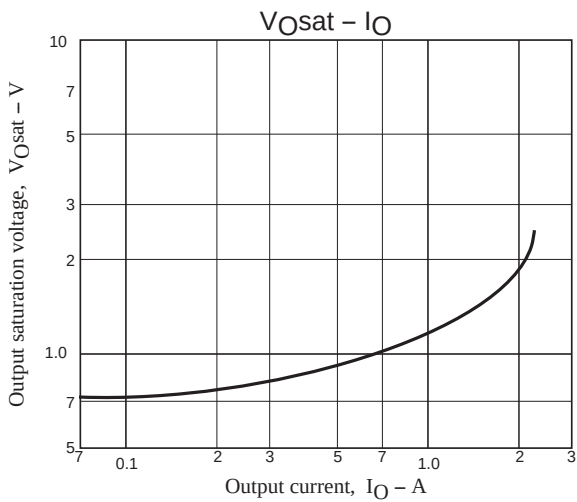
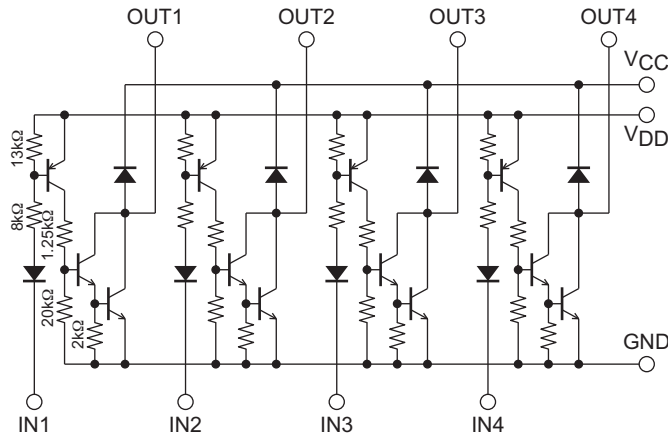
3097B



Pin Assignment



Equivalent Circuit



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