

Description

- Load Switch
- Power Management

Features

- V_{DS}= -30V,
- I_D=-72A
- $R_{DS(ON)}@V_{GS} = -10V, TYP = 5m\Omega$
- $R_{DS(ON)}@V_{GS} = -4.5V, TYP = 6.5m\Omega$

Absolute Maximum Ratings@TA=25°C unless otherwise noted

Parameter		Symbol	Max	Unit
Drain-Source Voltage		V _{DSS}	-30	V
Gate-Source Voltage		V _{GSS}	±20	V
Drain Current (Continuous)*AC	T _C =25°C	l _D	-72	А
	T _c =100°C		-45	
Drain Current (Pulsed)*B		I _{DM}	-220	А
Single Pulse Avalanche Energy *L=1mH , I _{AS} =-18A		EAS	162	mJ
Power Dissipation	T _C =25°C	PD	56.8	W
Operating temperature / Storage temperature		T _J /T _{STG}	-55~150	°C

A: The value of $R_{\theta JA}$ is measured with the device mounted on $1in^2$ FR-4 board with 2oz. Copper, in a still air environment with $T_A=25^{\circ}C$. The value in any given application depends on the user's specific board design.

B: Repetitive rating, pulse width limited by junction temperature.

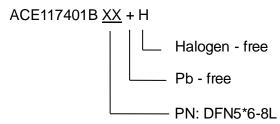
C: The current rating is based on the t≤ 10s junction to ambient thermal resistance rating.

Thermal Resistance Ratings

Parameter		Symbol	Typical	Maximum	Unit
Maximum Junction-to-Ambient	t≤10s	R _{thJA}	20	25	0000
Maximum Junction-to-Case (Drain)	Steady State	R _{thJC}	1.7	2.2	°C/W



Ordering information





Notes

ACE does not assume any responsibility for use as critical components in life support devices or systems without the express written approval of the president and general counsel of ACE Technology Co., LTD. As sued herein:

- 1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and shoes failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury to the user.
- 2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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