



N-Channel Enhancement Mode Power MOSFET

Description

- low side switch in SMPS
- general purpose applications

Features

- V_{DS}= 40V
- I_D = 12A
- $R_{DS(ON)}@V_{GS} = 10V$, TYP 8.2m Ω
- $R_{DS(ON)}@V_{GS} = 4.5V$, TYP 10.6m Ω

Absolute Maximum Ratings@TA=25℃ unless otherwise noted

Parameter		Symbol	Max	Unit
Drain-Source Voltage		V _{DSS}	40	V
Gate-Source Voltage		V_{GSS}	±20	V
Drain Current (Continuous) *AC	T _A =25°C		12	А
	T _A =70°C	l _D	9.5	
Drain Current (Pulsed) *B		I _{DM}	70	Α
Power Dissipation	T _A =25°C	P_{D}	2.5	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°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

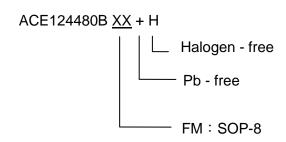
Parameter		Symbol	Maximum	Units
Maximum Junction-to-Ambient	t ≤ 10s	R_{thJA}	50	°C/W



ACE124480B

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Ordering information





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Notes

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- 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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