# ACE11234B

**P-Channel Enhancement Mode Power MOSFET**

## Features

- $V_{DS}$= -20V
- $I_D$= -4A
- $R_{DS(ON)}$@ $V_{GS}$ = -4.5V, TYP= 43.5mΩ
- $R_{DS(ON)}$@ $V_{GS}$ = -2.5V, TYP= 54mΩ

## General Description

- Load switch
- PWM applications

## Absolute Maximum Ratings

@$T_A$=25℃ unless otherwise noted.

| Parameter | | Symbol | Ratings | Unit |
|---|---|---|---|---|
| Drain-Source Voltage | | $V_{DSS}$ | -20 | V |
| Gate-Source Voltage | | $V_{GSS}$ | ±10 | V |
| Drain Current (Continuous)*AC | $T_A$=25℃ | $I_D$ | -4 | A |
| | $T_A$=70℃ | | -3 | |
| Drain Current (Pulse)*B | | $I_{DM}$ | -15.2 | A |
| Power Dissipation | $T_A$=25℃ | $P_D$ | 1.25 | W |
| Operating temperature / Storage temperature | | $T_J$/$T_{STG}$ | -55 to 150 | ℃ |

## Thermal Resistance Ratings

| Parameter | | Symbol | Max. | Unit |
|---|---|---|---|---|
| Maximum Junction-to-Ambient | t ≤ 5s | $R_{thJA}$ | 100 | ℃/W |

Note:

A: The value of $R_{thJA}$ 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.

## Ordering information

ACE11234B XX + H

- H: Halogen - free
- XX: Pb - free
- ACE11234B: BMS: TSOT-23-3

Notes

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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.