



ACE1820B

N-Channel Enhancement Mode Power MOSFET

Description

ACE1820B uses advanced trench technology and design to provide excellent $R_{DS(ON)}$ gate charge. It can be used in a wide variety of applications

Features

- $V_{DS}=200V$, $I_D=18A$
- $R_{DS(ON)1}@V_{GS}=10V$, MAX 170m Ω
- $R_{DS(ON)1}@V_{GS}=4.5V$, MAX 180m Ω

Absolute Maximum Ratings

Parameter	Symbol	Max	Unit	
Drain-Source Voltage	V_{DSS}	200	V	
Gate-Source Voltage	V_{GSS}	± 20	V	
Drain Current (Continuous)*AC	I_D	$T_A=25^\circ C$	18	A
		$T_A=100^\circ C$	11.7	
Single Pulse Avalanche Energy ³	EAS	15	mJ	
Drain Current (Pulsed)*B	I_{DM}	40	A	
Power Dissipation	$T_A=25^\circ C$	P_D	83	W
Operating temperature / storage temperature	T_J/T_{STG}	-55~150	$^\circ C$	

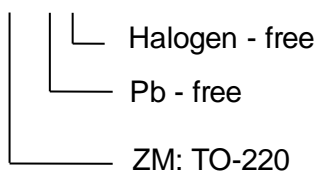
A: The value of $R_{\theta JA}$ is measured with the device mounted on 1in² FR-4 board with 2oz. Copper, in a still air environment with $T_A=25^\circ C$. The value in any given application depends on the user's specific board design.

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

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

Ordering information

ACE1820B XX + H





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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 used 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 whose 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.

ACE Technology Co., LTD.
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