Description

ACE6604B uses advanced trench technology and design to provide excellent $R_{DS(ON)}$ with low gate charge. It can be used in a wide variety of applications.

Features

- V_{DS}= 60V , I_D=85A
- $R_{DS(ON)}$@ V_{GS} = 10V , TYP= 4.6mΩ
- $R_{DS(ON)}$@ V_{GS} = 4.5V , TYP= 5.3mΩ

Absolute Maximum Ratings@T_A=25℃ unless otherwise noted

Parameter		Symbol	Max	Unit
Drain-Source Voltage		V_{DSS}	60	V
Gate-Source Voltage		V_{GSS}	±20	V
Drain Current (Continuous)*AC	T_A=25℃	I_D	85	A
	T_A=100℃		54	
Drain Current (Pulsed)*B		I_{DM}	340	A
Power Dissipation	T_A=25℃	P_D	135	W
Operating temperature / Storage temperature		T_J/T_{STG}	-55~150	℃

A: The value of $R_{θJA}$ 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.

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 Electronics 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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