ACE5208

P-Channel Power MOSFET

Description

The ACE5208 uses advanced trench technology to provide excellent $R_{DS(ON)}$, low gate charge and operation with low gate voltage.

This device is suitable for use as a load switching application and a wide variety of other applications.

Features

- Advanced trench MOSFET process technology
- Ultra low on-resistance with low gate charge

Applications

- PWM application
- Load switch
- Battery charge in cellular handset

Absolute Maximum Ratings

Parameter	Symbol	Max	Unit
Drain-Source Voltage	V_{DSS}	-12	V
Gate-Source Voltage	V_{GS}	±8	
Drain Current-Continuous	I_D	-6	A
Drain Current-Pulsed (note 1)	I_{DM}	-20	
Power Dissipation (note 2, T_A=25℃)	P_D	1.5	W
Maximum Power Dissipation (note 3, T_C=25℃)		12	
Thermal Resistance from Junction to Ambient (note 4)	$R_{\theta JA}$	83.3	℃/W
Thermal Resistance from Junction to case (note 4)	$R_{\theta JC}$	10.4	
Junction Temperature	T_J	150	℃
Storage Temperature	T_{STG}	-55~+150	

Ordering information

ACE5208 XX + H

- H: Halogen - free
- XX: Pb - free
- LN : DFNWB2*2-6L

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.