



ACE14S19W

P-Channel Enhancement Mode MOSFET

Description

The ACE14S19W is the P-Channel logic enhancement mode power field effect transistors are produced using high cell density, DMOS trench technology.

This high density process is especially tailored to minimize on-state resistance.

These devices are particularly suited for low voltage application such as cellular phone and notebook computer power management and other battery powered circuits where high-side switching and low in-line power loss are needed in a very small outline surface mount package.

Features

- -40V/-3.0A, $R_{DS(ON)}=100m\Omega@V_{GS}=-10V$
- -40V/-2.8A, $R_{DS(ON)}=130m\Omega@V_{GS}=-4.5V$
- Super high density cell design for extremely low $R_{DS(ON)}$
- Exceptional on-resistance and maximum DC current capability
- SOT-23-3 package design

Applications

- Power Management in Note book
- Portable Equipment
- Battery Powered System
- DC/DC Converter
- Load Switch
- DSC
- LCD Display inverter

Absolute Maximum Ratings

($T_A=25^{\circ}C$ Unless otherwise noted)

Parameter	Symbol	Typical	Unit
Drain-Source Voltage	V_{DSS}	-40	V
Gate-Source Voltage	V_{GSS}	± 20	V
Continuous Drain Current ($T_J=150^{\circ}C$)	I_D	$T_A=25^{\circ}C$	-3.5
		$T_A=70^{\circ}C$	-2.8
Pulsed Drain Current(*)	I_{DM}	-20	A
Continuous Source Current(Diode Conduction)	I_S	-1.4	A
Power Dissipation	P_D	$T_A=25^{\circ}C$	1.25
		$T_A=70^{\circ}C$	0.81
Operating Junction Temperature	T_J	-55~150	W
Storage Temperature Range	T_{STG}	-55~150	$^{\circ}C$
Thermal Resistance-Junction to Ambient	$R_{\theta JA}$	105	$^{\circ}C/W$

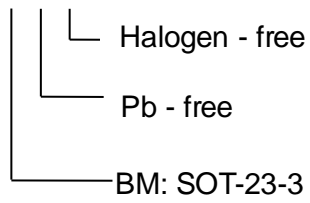


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Ordering information

ACE14S19W 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.

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