



ACE2277FS

N- Channel Small Signal MOSFET 30 Volts

Features

- $R_{DS(ON)} \leq 8\Omega @ V_{GS}=4V$
- $R_{DS(ON)} \leq 13\Omega @ V_{GS}=2.5V$
- Super high density cell design for extremely low $R_{DS(ON)}$
- Exceptional on-resistance and maximum DC current capability
- Capable doing Cu wire bonding
- ESD Protected:1000V

Applications

- Power Management in Note book
- Portable Equipment
- Battery Powered System
- Load Switch

Absolute Maximum Ratings @ $T_A=25^\circ C$ unless otherwise noted

Symbol	Parameter		Rating	Unit
V_{DS}	Drain-Source Voltage		30	V
V_{GS}	Gate-Source Voltage		± 20	V
I_D	Continuous Drain Current		340	mA
P_D	Total Device Dissipation	FR-5 Board (Note 1.) $T_A = 25^\circ C$	225	mW
		Derate above $25^\circ C$	1.8	mW/ $^\circ C$
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient		556	$^\circ C / W$
P_D	Total Device Dissipation	Alumina Substrate, (Note 2.) $T_A = 25^\circ C$	300	mW
		Derate above $25^\circ C$	2.4	mW/ $^\circ C$
$R_{\theta JA}$	Thermal Resistance from Junction to Ambient		417	$^\circ C / W$
T_j	Junction Temperature		-55~150	$^\circ C$
T_{stg}	Storage Temperature		-55~150	$^\circ C$

1. FR-5 = 1.0 x 0.75 x 0.062 in.

2. Alumina = 0.4 x 0.3 x 0.025 in 99.5% alumina.

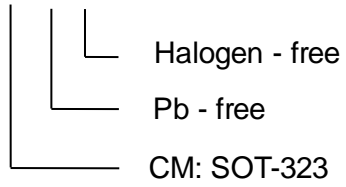


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Ordering information

ACE2277FS 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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