



ACE7323M

P-Channel 20-V (D-S) MOSFET

Description

The ACE7323M uses advanced trench technology to provide excellent $R_{DS(ON)}$, low gate charge. This device is suitable for use as a high side switch in SMPS and general purpose applications.

Features

- Low $r_{DS(on)}$ trench technology
- Low thermal impedance
- Fast switching speed

PRODUCT SUMMARY		
V_{DS} (V)	$r_{DS(on)}$ (m Ω)	I_D (A)
-20	9 @ $V_{GS} = -4.5V$	-17
	12 @ $V_{GS} = -2.5V$	-14

Applications

- Load Switches
- DC/DC Conversion
- Motor Drives

Absolute Maximum Ratings

Parameter		Symbol	Limit	Units
Drain-Source Voltage		V_{DS}	-20	V
Gate-Source Voltage		V_{GS}	± 8	V
Continuous Drain Current ^a	$T_A=25^\circ C$	I_D	-17	A
	$T_A=70^\circ C$		-12.2	
Pulse Drain Current ^b		I_{DM}	-60	
Continuous Drain Current (Diode Continuous) ^a		I_S	-5.1	A
Power Dissipation ^a	$T_A=25^\circ C$	P_D	3.5	W
	$T_A=70^\circ C$		2	
Operating Junction and Storage Temperature Range		T_J, T_{STG}	-55 to 150	$^\circ C$

Parameter		Symbol	Maximum	Units
Maximum Junction-to-Ambient ^a	$t \leq 10sec$	$R_{\theta JA}$	35	$^\circ C/W$
	Steady State		81	$^\circ C/W$

Notes

a. Surface Mounted on 1" x 1" FR4 Board.

b. Pulse width limited by maximum junction temperature

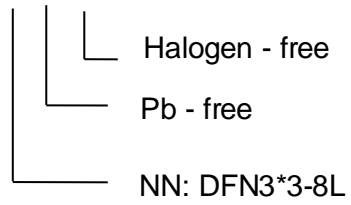


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Ordering information

ACE7323M 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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