



# ACE19020M

## N-Channel 200-V (D-S) MOSFET

### Features

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

Product Summary		
$V_{DS}$ (V)	$r_{DS(on)}$ (m $\Omega$ )	$I_D$ (A)
200	240 @ $V_{GS} = 10V$	29

### Applications

- White LED boost converters
- Automotive Systems
- Industrial DC/DC Conversion Circuits

### Absolute Maximum Ratings

Parameter	Symbol	Limit	Units
Drain-Source Voltage	$V_{DS}$	200	V
Gate-Source Voltage	$V_{GS}$	$\pm 20$	V
Continuous Drain Current	$I_D$	29	A
Pulse Drain Current <sup>a</sup>	$I_{DM}$	100	
Continuous Drain Current (Diode Continuous)	$I_S$	29	A
Power Dissipation <sup>a</sup>	$P_D$	300	W
Operating Junction and Storage Temperature Range	$T_J, T_{STG}$	-55 to 150	$^{\circ}C$

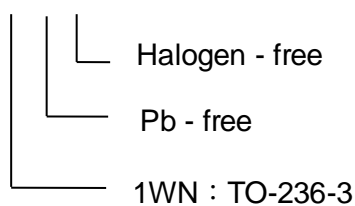
Parameter	Symbol	Maximum	Units
Maximum Junction-to-Ambient <sup>a</sup>	$R_{\theta JA}$	62.5	$^{\circ}C/W$
Maximum Junction-to-Case	$R_{\theta JC}$	0.5	$^{\circ}C/W$

#### Notes

a. Pulse width limited by maximum junction temperature

### Ordering information

ACE19020M 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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