



XR46000 Product Brief

N-Channel Power MOSFET

Description

The XR46000 is a silicon N-channel enhanced power MOSFET. With low conduction loss, good switching performance and high avalanche energy, it is suitable for various power supply system, especially for AC step driving application for LED lighting.

The package type is SOT-223, which comply with the RoHS standard.

Key Parameters

V_{DSS}	600V
I_D	1.5A
$P_D (T_C = 25^\circ\text{C})$	20W
$R_{DS,ON,typ}$	7.0 Ω

FEATURES

- Fast switching
- ESD improved capability
- Low gate charge (Typ. 7.5nC)
- Low reverse transfer capacitance (Typ. 5.0pF)

APPLICATIONS

- LED lighting applications
 - Downlight
 - High bay
 - Specialty
 - Architectural

Equivalent Circuit

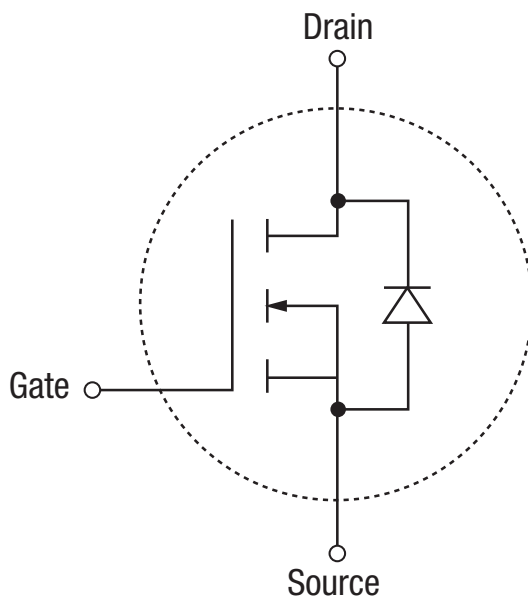
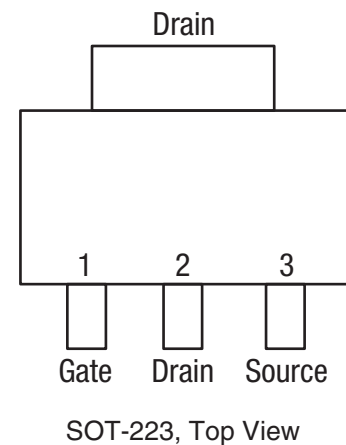


Figure 1. Equivalent Circuit

Pin Configuration



Ordering Information⁽¹⁾

Part Number	Operating Temperature Range	Lead-Free	Package	Packaging Method
XR46000ESETR	-40°C ≤ T _J ≤ 150°C	Yes ⁽²⁾	SOT-223	Tape and reel
XR46000ECF			Dice	Wafer

NOTE:

1. Refer to www.exar.com/XR46000 for most up-to-date Ordering Information.
2. Visit www.exar.com for additional information on Environmental Rating.

Please contact LEDtechsupport@exar.com to request a complete datasheet.



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