



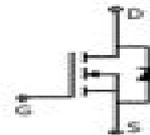
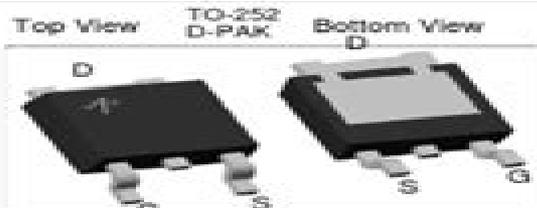
General Description

The AOD480 uses advanced trench technology and design to provide excellent $R_{\theta(jc)}$ with low gate charge. This device is suitable for use in PWM, load switching and general purpose applications.

Features

V_{DS} (V) = 30V
 I_D = 25A (V_{GS} = 10V)
 $R_{\theta(jc)}$ <23 m°C/W (V_{GS} = 10V)
 $R_{\theta(jc)}$ <33 m°C/W (V_{GS} = 4.5V)

100% UIS Tested
 100% Rg Tested



Absolute Maximum Ratings $T_A=25^\circ\text{C}$ unless otherwise noted

Parameter	Symbol	Maximum	Units
Drain-Source Voltage	V_{DS}	30	V
Gate-Source Voltage	V_{GS}	+20	V
Continuous Drain Current ^a	$T_C=25^\circ\text{C}$	25	A
		$T_C=100^\circ\text{C}$	
Pulsed Drain Current ^c	I_{DM}	64	A
Avalanche Current ^c	I_{AS}	12	A
Repetitive avalanche energy $L=0.1\text{mH}$ ^c	E_{AS}	7	mJ
Power Dissipation ^a	$T_C=25^\circ\text{C}$	21	W
		$T_C=100^\circ\text{C}$	
Power Dissipation ^a	$T_A=25^\circ\text{C}$	2.5	W
		$T_A=70^\circ\text{C}$	
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to 175	$^\circ\text{C}$

Thermal Characteristics

Parameter	Symbol	Typ	Max	Units
Maximum Junction-to-Ambient ^a	$R_{\theta(ja)}$	16.7	25	$^\circ\text{C}/\text{W}$
Maximum Junction-to-Ambient ^a		Steady-State	40	
Maximum Junction-to-Case ^b	$R_{\theta(jc)}$	4.5	7	$^\circ\text{C}/\text{W}$

Datasheet For U

Lei Huang



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capital ... angular speed control Sep 1, 2022 — Universiti Teknologi Malaysia. 81310 Johor Bahru, Johor. Date. : 1 September ... Figure C.1: Open loop DC motor Speed control with square wave ... SENSORLESS POSITION CONTROL OF DC MOTOR ... Nov 17, 2015 — ... Universiti Teknologi Malaysia, 81310, UTM Johor Bahru, Johor Malaysia ... Speed Control of D.C. Motor Using PI, IP, and Fuzzy Controller. Speed control of dc motor using pid controller - Universiti ... Nov 28, 2012 — Speed control of dc motor using pid controller - Universiti Malaysia ... UNIVERSITI TEKNOLOGI MALAYSIA - Universiti Malaysia Pahang. CHAPTER 1 ... Brushless DC Motor Speed Control Using Single Input ... Abstract: Many Industries are using Brushless Direct Current (BLDC) Motor in various applications for their high torque performance, higher efficiency and low ... Design a Speed Control for DC Motor Using an Optimal ... by AI Tajudin · 2022 · Cited by 1 — Abstract—The project purpose to implement Artificial Bee Colony (ABC) algorithm optimization technique for controlling the speed of the DC motor. (PDF) A response time reduction for DC motor controller ... This paper proposes an alternative solution to maximize optimization for a controller-based DC motor. The novel methodology relies on merge proper tuning with ... Modelling and Simulation for Industrial DC Motor Using ... by AAA Emhemed · 2012 · Cited by 61 — The main objective of this paper illustrates how the speed of the DC motor can be controlled using different controllers. The simulation results demonstrate ... Stability and performance evaluation of the speed control ... by SA Salman · 2021 · Cited by 3 — This paper presents the design of a state-feedback control to evaluate the performance of the speed control of DC motor for different applications. The. Precision Speed Control of A DC Motor Using Fuzzy Logic ... Precision Speed Control of A DC Motor Using Fuzzy Logic Controller Optimized by ... Universiti Teknologi Malaysia, ACKNOWLEDGMENT Johor, Malaysia, in 2011. He ... DC Motor Control | Automation & Control Engineering Forum Jun 20, 2022 — I have a 1 HP DC motor that I'm currently manually controlling using a Dayton 1F792 DC Speed Control unit. I want to automate the following ... Wong's Essentials of Pediatric Nursing ... Wong's Essentials of Pediatric Nursing (Essentials of Pediatric Nursing (Wong)). 9th Edition. ISBN-13: 978-0323083430, ISBN ... Wong's Essentials of Pediatric Nursing Wong's Essentials of Pediatric Nursing - Elsevier eBook on VitalSource, 9th Edition · Key Features. Developmental approach clearly identifies key issues at each ... Wong's Essentials of Pediatric Nursing Ninth Edition Amazon.com: Wong's Essentials of Pediatric Nursing Ninth Edition : Marilyn J. Hockenberry, David Wilson: Everything Else. Wong's Clinical Manual of Pediatric Nursing, 9th Edition Reflecting the latest in research and evidence-based practice, the book provides assessment tools and new information on pediatric pain assessment and ... Study Guide for Wong's Essentials of Pediatric Nursing ... May 6, 2021 — Updated to correspond to the bestselling textbook, the Study Guide for Wong's Essentials of Pediatric Nursing, 11th Edition features Next ... Wong's Essentials of Pediatric Nursing - E-Book ... edition of. Wong's Essentials of Pediatric Nursing. This tenth edition ... (9):771-783. Meek J, Huertas A. Cochrane review: non-nutritive sucking, kangaroo ... E BOOK: WONG'S ESSENTIALS OF PEDIATRIC NURSING E BOOK: WONG'S ESSENTIALS OF PEDIATRIC NURSING - PAGEBURST DIGITAL BOOK (RETAIL ACCESS CARD), 9TH EDITION · Author: ·

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