



Q Search

[Sign In / Register](#)

LANGUAGE ▾



MGD3160AM515EK

Active

Fully qualified to meet NXP quality and reliability requirements. Available for production quantity orders.

Features

EV Inverter Control; IGBT & SiC GDIC.

[Product Summary](#)

[Tools and Software](#)

[Documentation](#)

Package

SSOP32

SSOP32, plastic, shrink small outline package; 32 terminals; 0.65 mm pitch; 7.5 mm x 11 mm x 2.5 mm body.



[Buy Options](#) | [Operating Features](#) | [Environmental](#) | [Quality](#) | [Shipping](#) | [Product Change Notice](#)

Buy Options

MGD3160AM515EK

12NC: 935399916574

Active

1K @ US

\$4.26

[BUY FROM DISTRIBUTOR](#)

Packing: TUBE-Tube in Drypack

Min. Package Quantity: 42

Min. Order Quantity: 42

Lead Time: 52

> Available Distributors: MGD3160AM515EK

MGD3160AM515EKR2

12NC: 935399916518

Active

1K @ US

\$4.26

[BUY FROM DISTRIBUTOR](#)

Packing: REEL-Reel 13" Q1/T1 in Drypack

Min. Package Quantity: 1000

Min. Order Quantity: 1000

Lead Time: 52

> Available Distributors: MGD3160AM515EKR2

Operating Features

Parameter	Value
Device Function	HV Isolated IGBT & SiC Single gate driver IC
Logic Level (V)	5
Frequency (Max) (kHz)	100
Load Current (IL) [TYP] (A)	15
Number of Channels	1
Protection	desaturation, overtemperature, real time monitor, segmented drive, short-circuit, two-level turn off, undervoltage
Drain-to-Source On Resistance (Typ) (mOhm) (RDS(ON))	500
Load Supply Voltage (Min) (V)	-12

Parameter	Value
Load Supply Voltage (Max) (V)	25
Supply Voltage [min] (V)	4.75
Supply Voltage [max] (V)	40
Interface and Input Control	SPI / PWM
SPI [bits]	24
Ambient Operating Temperature (Min to Max) (°C)	-40 to 125
ASIL Certification	up to ASIL-D

Environmental

Part/12NC	PbFree	EU RoHS	Halogen Free	RHF Indicator	REACH SVHC	Weight (mg)
MGD3160AM515EK (935399916574)	Yes	Yes Certificate Of Analysis (CoA)	Yes	D	REACH SVHC	510.0
MGD3160AM515EKR2 (935399916518)	Yes	Yes Certificate Of Analysis (CoA)	Yes	D	REACH SVHC	510.0

Quality

Part/12NC	Safe Assure Functional Safety	Moisture Sensitivity Level (MSL)	Peak Package Body Temperature (PPT) (C°)	Maximum Time at Peak Temperatures (s)
		Lead Free Soldering	Lead Free Soldering	Lead Free Soldering
MGD3160AM515EK (935399916574)	ISO 26262	3	260	40
MGD3160AM515EKR2 (935399916518)	ISO 26262	3	260	40

Shipping

Part/12NC	Harmonized Tariff (US) Disclaimer
MGD3160AM515EK (935399916574)	854239
MGD3160AM515EKR2 (935399916518)	854239

Product Change Notice

Part/12NC	Issue Date	Effective Date	PCN	Title
MGD3160AM515EK (935399916574)	2020-12-15	2020-12-16	202011011I	NXP Will Add a Sealed Date to the Product Label
MGD3160AM515EKR2 (935399916518)				

