

Product Summary

- **30V,150A**

Symbol	Test Condition	Typ.	Max.	Unit
Rds(on)	VGS=10V, ID=30A	2.0	2.6	mΩ
	VGS=4.5V, ID=20A	3.4	5.0	

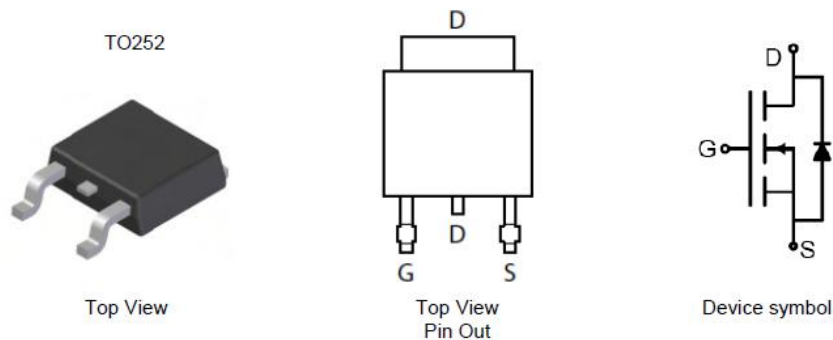
Applications

- Load Switch
- PWM Application
- Other
- Brushless Motor Driver
- Power management

Features

- Advanced Trench Technology
- Excellent RDS(ON) and Low Gate Charge
- Lead free product is acquired

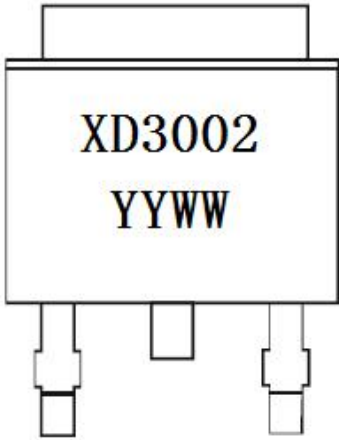
Mechanical Data



Ordering Information

Product	Marking	Reel size (inches)	Tape width (mm)	Quantity per reel
LMXD3002	XD3002	13	16	2,500

Marking Information

	<p>C= Manufacturer's Marking XD3002 = Product Type Marking Code YYWW = Date Code Marking YY = Year (ex: 10 = 2010) WW = Week (01 - 53)</p>
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Key Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Drain to Source Breakdown Voltage	V(BV) _{dss}	V _{GS} =0V, I _D =250uA	30		-	V
Continuous Drain Current	I _D	T _J =25°C	150			A
Gate-source maximum voltage	V _{gs}		±20			V
Gate Threshold Voltage	V _{GS(th)}	V _{DS} =V _{GS} , I _D =250uA	1.0	1.5	2.4	V
Drain to Source On-state Resistance	R _{ds(on)}	V _{GS} =10V, I _D =30A	-	2.0	2.6	mΩ
		V _{GS} =4.5V, I _D =20A	-	3.4	5.0	
Diode Forward Voltage	V _{sd}	I _D =20A, V _{gs} =0V,	-	0.9	1.2	V
Drain to Source leakage current	I _{DSS}	V _{DS} =30V, V _{GS} =0V T _J =25°C	-	-	1	uA
		V _{DS} =24V, V _{GS} =0V T _J =25°C	-	-	0.8	
Gate to source leakage current ¹	I _{GSS}	V _{GS} =±20V	-	-	±100	nA
Junction Temperature	T _J		-55~150			°C
Storage Temperature	T _{STG}		-55~150			°C

Notes:

1. Pulse test: Pulse Width ≤ 300us, Duty cycle ≤ 2%.
2. R_{ds(on)} calculated by TO-252 Package Type.

Package Outline Dimensions

