



YJG85G06HQ

N-Channel Enhancement Mode Field Effect Transistor

Product Summary

V_{DS}	60V
I_D	85A
$R_{DS(ON)}$ (at $V_{GS}=10V$)	5.3m
100% EAS Tested	
100% V_{DS} Tested	

General Description

Split gate trench MOSFET technology
 Excellent package for heat dissipation
 High density cell design for low $R_{DS(ON)}$
 Moisture Sensitivity Level 1

Epoxy Meets UL 94 V-0 Flammability Rating
 Halogen Free
 Part no. with suffix "Q" means AEC-Q101 qualified

Thermal resistance

Applications

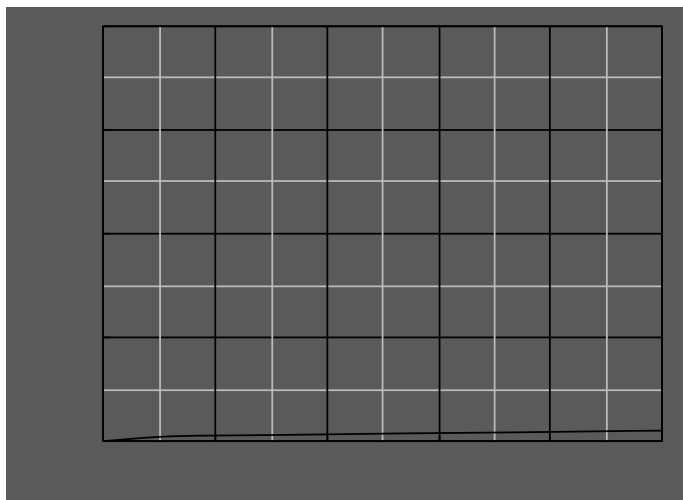
Power switching application
 Uninterruptible power supply
 DC-DC converter

Absolute Maximum Ratings ($T_A=25$ unless otherwise noted)

Parameter		Symbol	Limit	Unit
Drain-source Voltage		V_{DS}	60	V
Gate-source Voltage		V_{GS}	± 20	V
Drain Current	$T_A=25$	I_D	15	A
	$T_A=100$		10	
	$T_C=25$		85	
	$T_C=100$		60	
Pulsed Drain Current ^A		I_{DM}	300	A



Typical Electrical and Thermal Characteristics Diagrams





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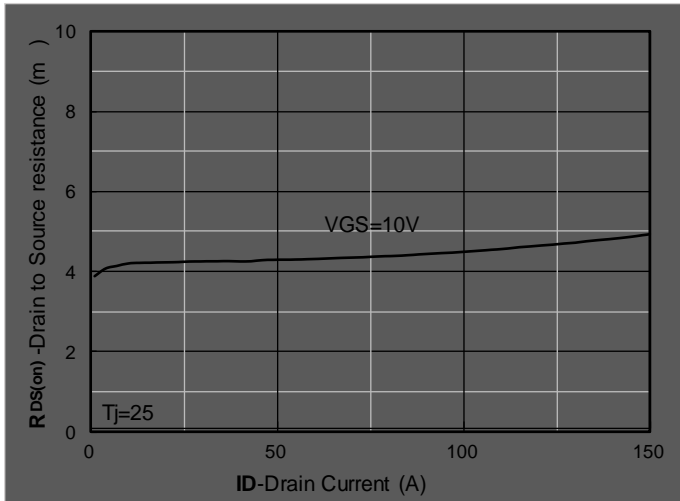


Figure 7. $R_{DS(on)}$ VS Drain Current

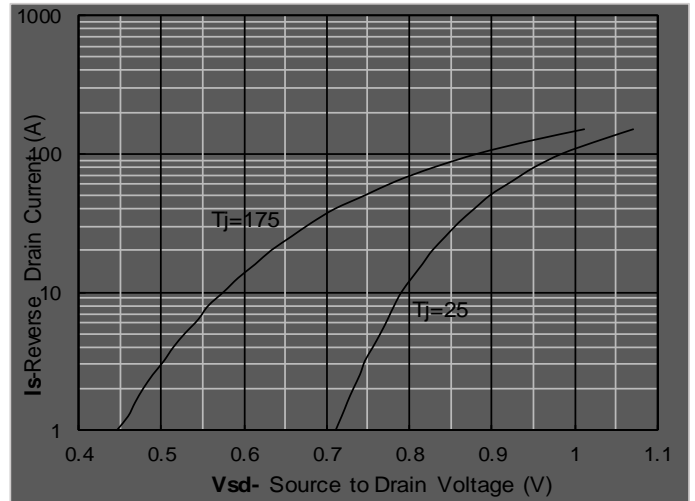
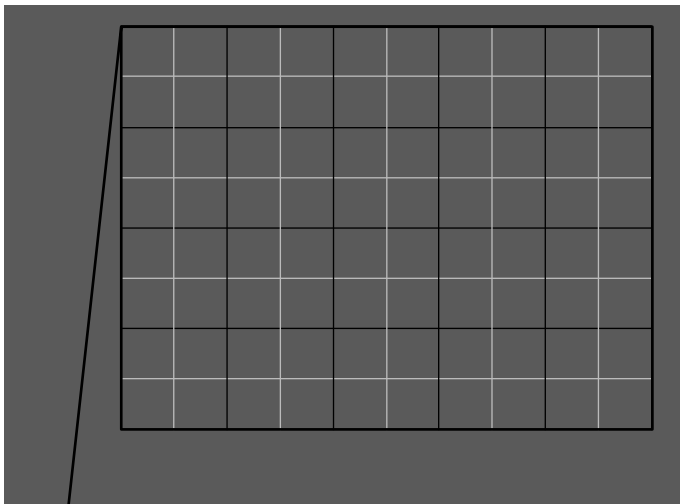
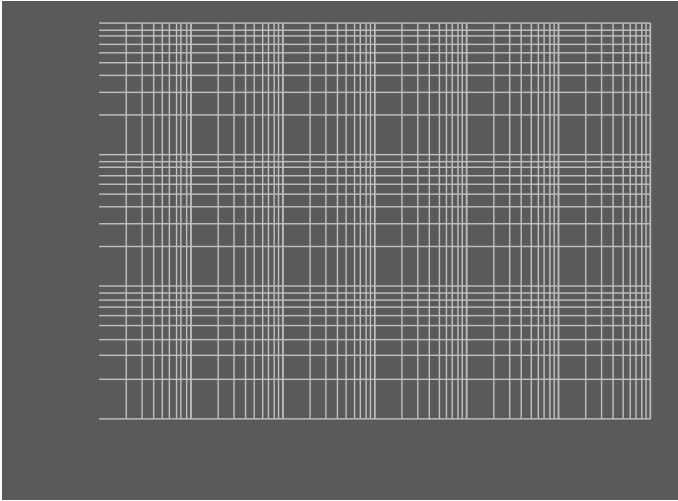


Figure 8. Forward characteristics of reverse diode



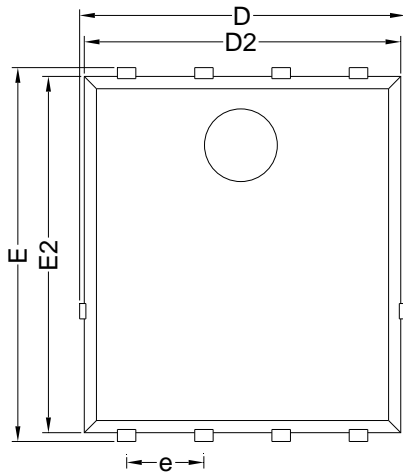




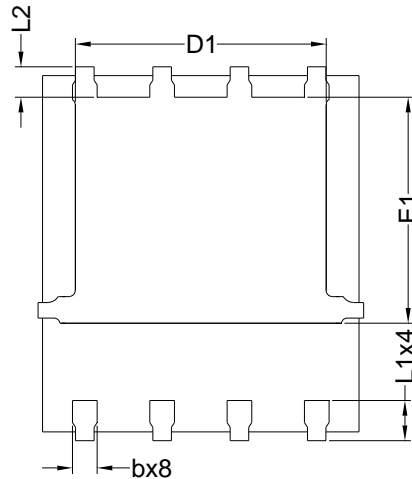


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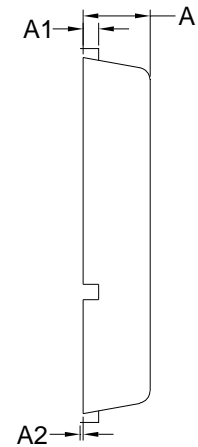
PDFN5060-8L-B-1.1MM Package information



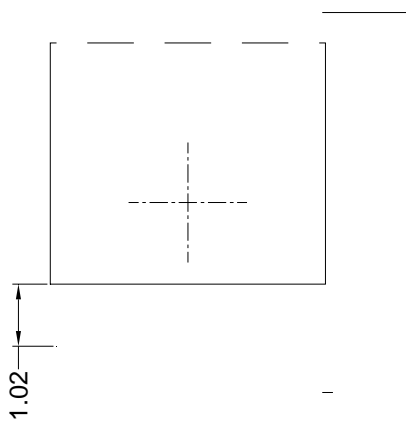
Top View



Bottom View



Side View



Suggested Solder Pad Layout
Top View

SYMBOL	MILLIMETER		
	MIN	NOM	MAX
D	5.15	5.35	5.55
E	5.95	6.15	6.35
A	1.00	1.10	1.20
A1	0.254 BSC		
A2			0.10
D1	3.92	4.12	4.32
E1	3.52	3.72	3.92
D2	5.00	5.20	5.40
E2	5.66	5.86	6.06
E3	0.254 REF		
E4	0.21 REF		
L1	0.56	0.66	0.76
L2	0.50 BSC		
b	0.31	0.41	0.51
e	1.27 BSC		

Note:

1. Controlling dimension: in millimeters.
2. General tolerance: ± 0.10 mm.
3. The pad layout is for reference purposes only.



Disclaimer

The information presented in this document is for reference only. Ya ä V