



### 60V 175°C N-CHANNEL ENHANCEMENT MODE MOSFET PowerDI5060-8

## **Product Summary**

BV <sub>DSS</sub>	R <sub>DS(ON)</sub>	I <sub>D</sub> T <sub>C</sub> = +25°C
60V	$16m\Omega @ V_{GS} = 10V$	37.1A
60 V	24mΩ @ V <sub>GS</sub> = 4.5V	30.3A

## **Description and Applications**

This MOSFET has been designed to meet the stringent requirements of automotive applications. It is qualified to AEC-Q101, supported by a PPAP and is ideal for use in:

- Power managements
- DC-DC converters
- Motor controls

## **Features**

- Rated to +175°C Ideal for High Ambient Temperature Environments
- Thermally Efficient Package Cooler Running Applications
- High Conversion Efficiency
- Low R<sub>DS(ON)</sub> Minimizes On-State Losses
- Low Input Capacitance
- Fast Switching Speed
- <1.1mm Package Profile Ideal for Thin Applications
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)
  - The DMTH6016LPSQ is suitable for automotive applications requiring specific change control; this part is AEC-Q101 qualified, PPAP capable, and manufactured in IATF 16949 certified facilities.

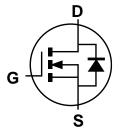
https://www.diodes.com/quality/product-definitions/

### **Mechanical Data**

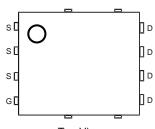
- Package: PowerDI<sup>®</sup>5060-8
- Package Material: Molded Plastic, "Green" Molding Compound.
   UL Flammability Classification Rating 94V-0
- Moisture Sensitivity: Level 1 per J-STD-020
- Terminal Finish Matte Tin Annealed over Copper Leadframe.
   Solderable per MIL-STD-202, Method 208 (3)
- Weight: 0.097 grams (Approximate)



Site 2:



Internal Schematic



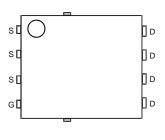
Top View Pin Configuration



Pin1

Internal Schematic

S



Top View Pin Configuration

### PowerDI5060-8/SWP (Type UX)





Top View

Bottom View

## **Ordering Information** (Note 4)

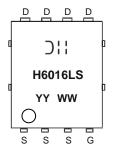
Ordershie Bert Number	Dookono	Packing		
Orderable Part Number	Package	Qty.	Carrier	
DMTH6016LPSQ-13	PowerDI5060-8	2,500	Tape & Reel	
DMTH6016LPSQ-13	PowerDI5060-8/SWP (Type UX)	2,500	Tape & Reel	

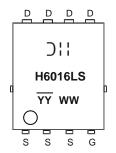
Notes:

- 1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 4. For packaging details, go to our website at https://www.diodes.com/design/support/packaging/diodes-packaging/.



# **Marking Information**





☐ Hanufacturer's Marking
H6016LS = Product Type Marking Code
YYWW = Date Code Marking
YY or YY = Last Two Digits of Year (ex: 24 = 2024)
WW = Week Code (01 to 53)

# **Maximum Ratings** (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic	Symbol	Value	Unit		
Drain-Source Voltage			$V_{DSS}$	60	V
Gate-Source Voltage			Vgss	±20	V
Continuous Drain Current (Note 6) $V_{GS} = 10V$ $T_{C} = +25^{\circ}C$ $T_{C} = +100^{\circ}C$		I <sub>D</sub>	37.1 26.2	А	
Continuous Drain Current (Note 5) Vos – 10V		$T_A = +25^{\circ}C$ $T_A = +100^{\circ}C$	lD	10.6 7.5	А
Pulsed Drain Current (10µs Pulse, Duty Cycle = 1%)	IDM	145	А		
Maximum Continuous Body Diode Forward Current (Note 6)	ls	31	Α		
Avalanche Current, L = 0.1mH			I <sub>AS</sub>	15.3	Α
Avalanche Energy, L = 0.1mH			Eas	11.7	mJ

## **Thermal Characteristics**

Characteristic	Symbol	Value	Unit	
Total Power Dissipation (Note 5)	$T_A = +25$ °C	PD	3	W
Thermal Resistance, Junction to Ambient (Note 5)	Steady State	$R_{\theta JA}$	49	°C/W
Total Power Dissipation (Note 6) $T_C = +25^{\circ}C$			37.5	W
Thermal Resistance, Junction to Case (Note 6)	R <sub>0</sub> JC	4	°C/W	
Operating and Storage Temperature Range		T <sub>J</sub> , T <sub>STG</sub>	-55 to +175	°C

Notes: 5. Device mounted on FR-4 substrate PC board, 2oz copper, with thermal bias to bottom layer 1 inch square copper plate.

6. Thermal resistance from junction to soldering point (on the exposed drain pad).



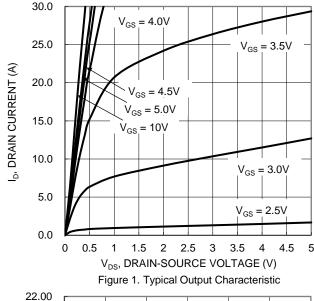
# Electrical Characteristics (@T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
OFF CHARACTERISTICS (Note 7)	Symbol	IVIIII	тур	IVIAA	Oilit	rest condition
Drain-Source Breakdown Voltage	BVpss	60	_	_	V	V <sub>G</sub> S = 0V, I <sub>D</sub> = 250μA
Zero Gate Voltage Drain Current	Ipss	_	_	1	μΑ	V <sub>DS</sub> = 48V, V <sub>GS</sub> = 0V
Gate-Source Leakage	Igss	_	_	±100	nA	$V_{GS} = \pm 20V, V_{DS} = 0V$
ON CHARACTERISTICS (Note 7)			l .	ı		,
Gate Threshold Voltage	VGS(TH)	1	_	2.5	V	V <sub>DS</sub> = V <sub>GS</sub> , I <sub>D</sub> = 250μA
Statio Drain Source On Begintance	D	_	12.4	16	mΩ	Vgs = 10V, ID = 20A
Static Drain-Source On-Resistance	RDS(ON)	_	18.2	24	mtz	VGS = 4.5V, ID = 18A
Diode Forward Voltage	V <sub>SD</sub>		0.7	1.2	V	V <sub>GS</sub> = 0V, I <sub>S</sub> = 1A
DYNAMIC CHARACTERISTICS (Note 8)				•	•	
Input Capacitance	Ciss	-	864	_		V <sub>DS</sub> = 30V, V <sub>GS</sub> = 0V, f = 1MHz
Output Capacitance	Coss		282	_	pF	
Reverse Transfer Capacitance	Crss	_	27	_		
Gate Resistance	Rg	_	1.3	_	Ω	$V_{DS} = 0V$ , $V_{GS} = 0V$ , $f = 1MHz$
Total Gate Charge (VGS = 4.5V)	Qg	_	8.4	_		
Total Gate Charge (V <sub>GS</sub> = 10V)	Qg	_	17	_		V <sub>DS</sub> = 30V, I <sub>D</sub> = 10A
Gate-Source Charge	Qgs	_	3.1	_	nC	
Gate-Drain Charge	Qgd	_	4.3	_		
Turn-On Delay Time	t <sub>D(ON)</sub>	_	3.4	_		
Turn-On Rise Time	t <sub>R</sub>	_	5.2	_		$V_{GS} = 10V, V_{DS} = 30V,$ $R_{G} = 6\Omega, I_{D} = 10A$
Turn-Off Delay Time	tD(OFF)	_	13	_	ns	
Turn-Off Fall Time	tF	_	7	_	1	
Reverse-Recovery Time	t <sub>RR</sub>	_	22	_	ns	1 404 11/11 4004/
Reverse-Recovery Charge	Q <sub>RR</sub>	_	11	_	nC	I <sub>F</sub> = 10A, di/dt = 100A/μs

7. Short duration pulse test used to minimize self-heating effect. 8. Guaranteed by design. Not subject to product testing. Notes:







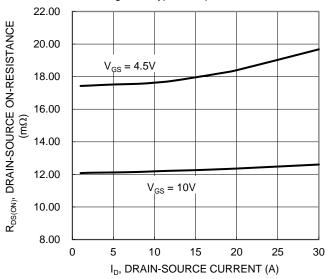


Figure 3. Typical On-Resistance vs Drain Current and Gate Voltage

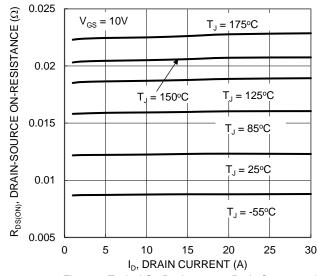
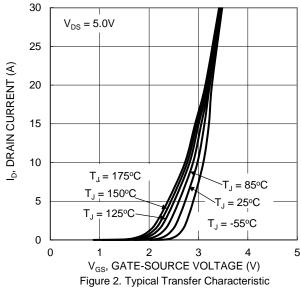
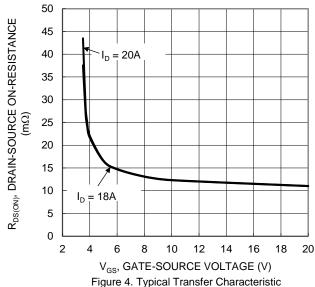


Figure 5. Typical On-Resistance vs Drain Current and Temperature





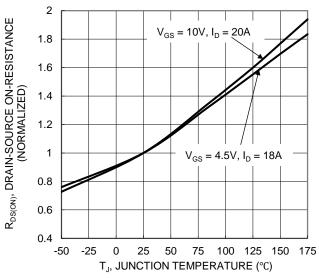


Figure 6. On-Resistance Variation with Temperature



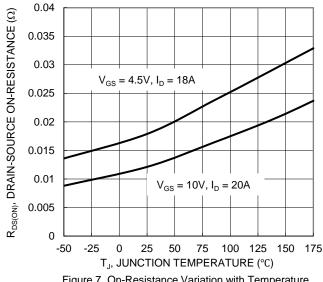


Figure 7. On-Resistance Variation with Temperature

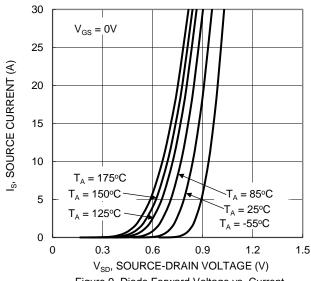


Figure 9. Diode Forward Voltage vs. Current 10 V<sub>GS</sub>, GATE-SOURCE VOLTAGE (V) 8  $V_{DS} = 30V$ 6 I<sub>D</sub> = 10A 2 0 0 12 2 8 10 14 16 18  $Q_q$ , TOTAL GATE CHARGE (nC) Figure 11 Gate Charge

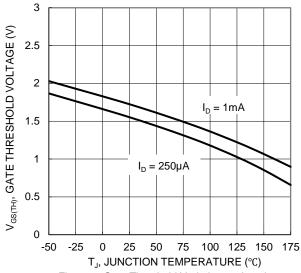
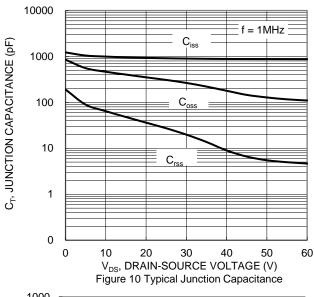
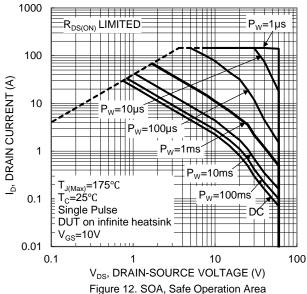


Figure 8. Gate Threshold Variation vs Junction Temperature







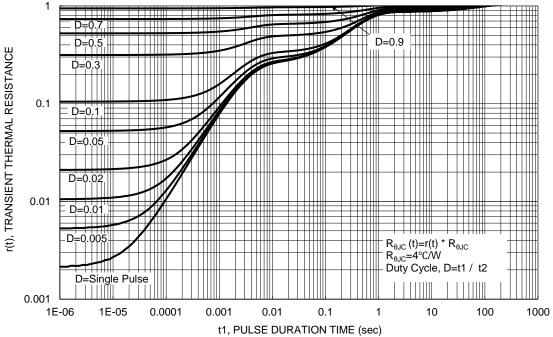


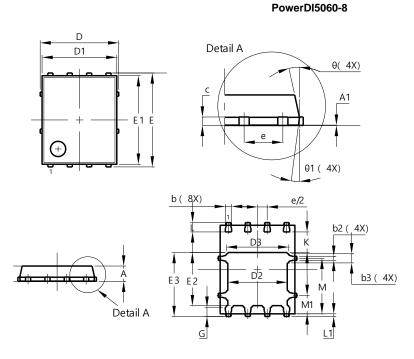
Figure 13. Transient Thermal Resistance



# **Package Outline Dimensions**

Please see http://www.diodes.com/package-outlines.html for the latest version.

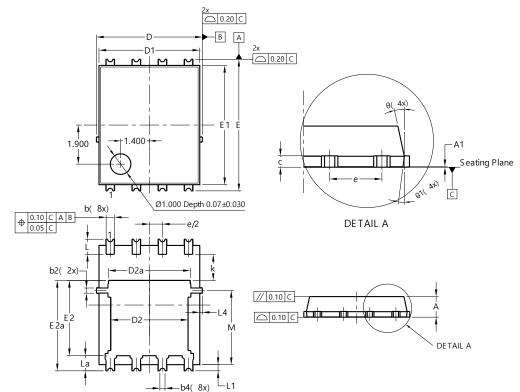
### Site 1:



PowerDI5060-8				
Dim	Min	Max	Тур	
Α	0.90	1.10	1.00	
A1	0.00	0.05	-	
b	0.33	0.51	0.41	
b2	0.200	0.350	0.273	
b3	0.40	0.80	0.60	
С	0.230	0.330	0.277	
C D	-,	5.15 BSC	,	
D1	4.70	5.10	4.90	
D2	3.70	4.10	3.90	
D3	3.90	4.30	4.10	
Е	(	6.15 BSC	;	
E1	5.60	6.00	5.80	
E2	3.28	3.68	3.48	
E3	3.99	4.39	4.19	
е	e 1.27 BSC			
G	0.51	0.71	0.61	
K	0.51	-	-	
١	0.51	0.71	0.61	
L1	0.100	0.200	0.175	
М	3.235	4.035	3.635	
M1	1.00	1.40	1.21	
Θ	10°	12°	11°	
Θ1	6°	8°	7°	
All Dimensions in mm				

Site 2:

## PowerDI5060-8/SWP (Type UX)



$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	PowerDI5060-8/SWP						
A 0.90 1.10 1.00  A1 0 0.05 b 0.30 0.50 0.41 b2 0.20 0.35 0.25 b4 0.25REF c 0.230 0.330 0.277 D 5.15 BSC  D1 4.70 5.10 4.90 D2 3.56 3.96 3.76 D2a 3.78 4.18 3.98 E 6.40 BSC E1 5.60 6.00 5.80 E2 3.46 3.86 3.66 E2a 4.195 4.595 4.395 e 1.27BSC k 1.05 L 0.635 0.835 0.735 La 0.635 0.835 0.735 L1 0.200 0.400 0.300 L4 0.025 0.225 0.125 M 3.205 4.005 3.605 θ 10° 12° 11° θ1 6° 8° 7°	Dim	(Type UX)					
A1         0         0.05            b         0.30         0.50         0.41           b2         0.20         0.35         0.25           b4         0.25REF         0.230         0.330         0.277           D         5.15 BSC         5.10         4.90           D2         3.56         3.96         3.76           D2a         3.78         4.18         3.98           E         6.40 BSC           E1         5.60         6.00         5.80           E2         3.46         3.86         3.66           E2a         4.195         4.595         4.395           e         1.27BSC           k         1.05            L         0.635         0.835         0.735           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°           θ1         6°         8°         7°		IVIIII					
b         0.30         0.50         0.41           b2         0.20         0.35         0.25           b4         0.25REF         c         0.230         0.330         0.277           D         5.15 BSC           D1         4.70         5.10         4.90           D2         3.56         3.96         3.76           D2a         3.78         4.18         3.98           E         6.40 BSC           E1         5.60         6.00         5.80           E2         3.46         3.86         3.66           E2a         4.195         4.595         4.395           e         1.27BSC           k         1.05            L         0.635         0.835         0.735           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°           θ1         6°         8°         7°		0.90	1.10	1.00			
b2         0.20         0.35         0.25           b4         0.25REF         c         0.230         0.330         0.277           D         5.15 BSC         D1         4.90         5.10         4.90           D2         3.56         3.96         3.76         3.98         E         6.40 BSC           E1         5.60         6.00         5.80         E2         3.46         3.86         3.66         E2a         4.195         4.595         4.395         e         1.27BSC         k         1.05          L         0.635         0.835         0.735         La         0.635         0.835         0.735         L1         0.200         0.400         0.300         L4         0.025         0.225         0.125         M         3.205         4.005         3.605         θ         10°         12°         11°         θ         10°         8°         7°	A1	0	0.05				
b4         0.25REF           c         0.230         0.330         0.277           D         5.15 BSC           D1         4.70         5.10         4.90           D2         3.56         3.96         3.76           D2a         3.78         4.18         3.98           E         6.40 BSC           E1         5.60         6.00         5.80           E2         3.46         3.86         3.66           E2a         4.195         4.595         4.395           e         1.27BSC           k         1.05             L         0.635         0.835         0.735           La         0.635         0.835         0.735           La         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°           θ1         6°         8°         7°	b	0.30	0.50	0.41			
c         0.230         0.330         0.277           D         5.15 BSC           D1         4.70         5.10         4.90           D2         3.56         3.96         3.76           D2a         3.78         4.18         3.98           E         6.40 BSC           E1         5.60         6.00         5.80           E2         3.46         3.86         3.66           E2a         4.195         4.595         4.395           e         1.27BSC           k         1.05             L         0.635         0.835         0.735           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°           θ1         6°         8°         7°	b2						
D         5.15 BSC           D1         4.70         5.10         4.90           D2         3.56         3.96         3.76           D2a         3.78         4.18         3.98           E         6.40 BSC           E1         5.60         6.00         5.80           E2         3.46         3.86         3.66           E2a         4.195         4.595         4.395           e         1.27BSC         k         1.05             L         0.635         0.835         0.735         0.735           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°           θ1         6°         8°         7°	b4	(	).25REF	=			
D1         4.70         5.10         4.90           D2         3.56         3.96         3.76           D2a         3.78         4.18         3.98           E         6.40 BSC           E1         5.60         6.00         5.80           E2         3.46         3.86         3.66           E2a         4.195         4.595         4.395           e         1.27BSC             L         0.635         0.835         0.735           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°           θ1         6°         8°         7°	C	0.230	0.330	0.277			
D2         3.56         3.96         3.76           D2a         3.78         4.18         3.98           E         6.40 BSC           E1         5.60         6.00         5.80           E2         3.46         3.86         3.66           E2a         4.195         4.595         4.395           e         1.27BSC           k         1.05             L         0.635         0.835         0.735           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°           θ1         6°         8°         7°	D	5	.15 BS0	2			
D2a         3.78         4.18         3.98           E         6.40 BSC           E1         5.60         6.00         5.80           E2         3.46         3.86         3.66           E2a         4.195         4.595         4.395           e         1.27BSC           k         1.05             L         0.635         0.835         0.735           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°           θ1         6°         8°         7°	D1	4.70	5.10	4.90			
E         6.40 BSC           E1         5.60         6.00         5.80           E2         3.46         3.86         3.66           E2a         4.195         4.595         4.395           e         1.27BSC             L         0.635         0.835         0.735           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°           θ1         6°         8°         7°	D2	3.56	3.96	3.76			
E1         5.60         6.00         5.80           E2         3.46         3.86         3.66           E2a         4.195         4.595         4.395           e         1.27BSC             L         0.635         0.835         0.735           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°           θ1         6°         8°         7°	D2a	3.78	4.18	3.98			
E2       3.46       3.86       3.66         E2a       4.195       4.595       4.395         e       1.27BSC         k       1.05           L       0.635       0.835       0.735         La       0.635       0.835       0.735         L1       0.200       0.400       0.300         L4       0.025       0.225       0.125         M       3.205       4.005       3.605         θ       10°       12°       11°         θ1       6°       8°       7°	Е	6	.40 BS0	2			
E2a       4.195       4.595       4.395         e       1.27BSC         k       1.05           L       0.635       0.835       0.735         La       0.635       0.835       0.735         L1       0.200       0.400       0.300         L4       0.025       0.225       0.125         M       3.205       4.005       3.605         θ       10°       12°       11°         θ1       6°       8°       7°	E1		6.00				
E2a       4.195       4.595       4.395         e       1.27BSC         k       1.05           L       0.635       0.835       0.735         La       0.635       0.835       0.735         L1       0.200       0.400       0.300         L4       0.025       0.225       0.125         M       3.205       4.005       3.605         θ       10°       12°       11°         θ1       6°       8°       7°	E2	3.46	3.86	3.66			
k         1.05             L         0.635         0.835         0.735           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°           θ1         6°         8°         7°	E2a	4.195	4.595	4.395			
L         0.635         0.835         0.735           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°           θ1         6°         8°         7°	е	1	.27BSC	)			
La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°           θ1         6°         8°         7°	k	1.05					
L1         0.200         0.400         0.300           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°           θ1         6°         8°         7°	L	0.635	0.835	0.735			
L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°           θ1         6°         8°         7°		0.635	0.835	0.735			
M     3.205     4.005     3.605       θ     10°     12°     11°       θ1     6°     8°     7°		0.200	0.400	0.300			
θ         10°         12°         11°           θ1         6°         8°         7°	L4	0.025	0.225	0.125			
<b>61</b> 6° 8° 7°	М	3.205	4.005				
	θ	10°					
All Dimensions in	θ1	6°	8°	7°			
All Dimensions in mm	All						

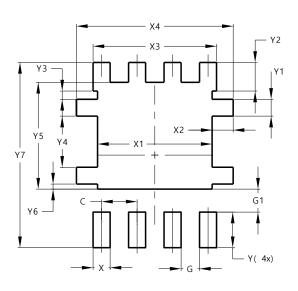


# **Suggested Pad Layout**

 $\label{prop:lease} Please see \ http://www.diodes.com/package-outlines.html \ for \ the \ latest \ version.$ 

### Site 1:

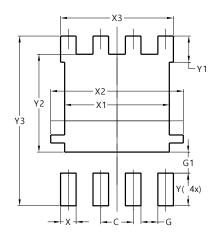
### PowerDI5060-8



Dimensions	Value (in mm)
C	1.270
G	0.660
G1	0.820
X	0.610
X1	4.100
X2	0.755
Х3	4.420
X4	5.610
Y	1.270
Y1	0.600
Y2	1.020
Y3	0.295
Y4	1.825
Y5	3.810
Y6	0.180
Y7	6.610

Site 2:

### PowerDI5060-8/SWP (Type UX)



Dimensions	Value (in mm)
С	1.270
G	0.660
G1	0.820
Χ	0.610
X1	4.100
X2	5.190
Х3	4.420
Υ	1.270
Y1	1.020
Y2	3.810
Y3	6.610



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