



#### N-CHANNEL ENHANCEMENT MODE MOSFET PowerDI5060-8

### **Product Summary**

BV <sub>DSS</sub>	R <sub>DS(ON)</sub> Max	I <sub>D</sub> Max T <sub>C</sub> = +25°C
30V	6mΩ @ V <sub>GS</sub> = 10V	65A
307	9.8mΩ @ V <sub>GS</sub> = 4.5V	55A

### **Description and Applications**

This MOSFET is designed to minimize the on-state resistance (RDS(ON)) yet maintain superior switching performance, making it ideal for high efficiency power management applications.

- Backlighting
- Power management functions
- DC-DC converters

### **Features and Benefits**

- Low R<sub>DS(ON)</sub> Minimizes On-State Losses
- Excellent Q<sub>qd</sub> x R<sub>DS(ON)</sub> Product (FOM)
- Advanced Technology for DC-DC Converters
- Small Form Factor Thermally Efficient Package Enables Higher **Density End Products**
- 100% Unclamped Inductive Switching Ensures More Reliability
- Lead-Free Finish; RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)
- For automotive applications requiring specific change control (i.e.: parts qualified to AEC-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please refer to the related automotive grade (Q-suffix) part. A listing can be found at

https://www.diodes.com/products/automotive/automotiveproducts/.

This part is qualified to JEDEC standards (as references in AEC-Q) for High Reliability.

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

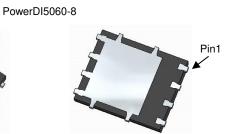
#### **Mechanical Data**

- 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 Connections Indicator: See Diagram
- Terminals: Finish—Matte Tin Annealed over Copper Leadframe. Solderable per MIL-STD-202, Method 208 @3
- Weight: 0.097 grams (Approximate)

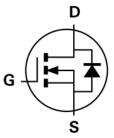
Site 1:



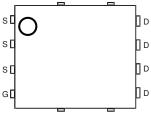
Top View



**Bottom View** 



Internal Schematic



Top View Pin Configuration



PowerDI5060-8 (SWP) (Type UX)



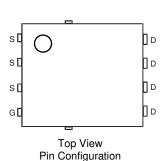




**Bottom View** 

S

Internal Schematic



PowerDI is a registered trademark of Diodes Incorporated.



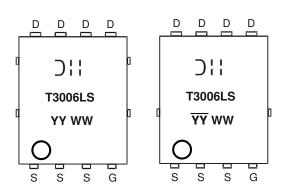
# Ordering Information (Note 4)

Part Number	Package	Packing		
Fait Number	rackage	Qty.	Carrier	
DMT3006LPS-13	PowerDI5060-8	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**



☐ → Superscript S

# **Maximum Ratings** (@ $T_A = +25$ °C, unless otherwise specified.)

Characteristic		Symbol	Value	Unit
Drain-Source Voltage		V <sub>DSS</sub>	30	V
Gate-Source Voltage		V <sub>GSS</sub>	±20	V
Continuous Drain Current, Vgs = 10V (Note 5)	$T_A = +25^{\circ}C$ $T_A = +70^{\circ}C$	lο	16 12	А
Continuous Drain Current, $V_{GS} = 10V$ (Note 6) $T_{C} = +25^{\circ}C$ $T_{C} = +70^{\circ}C$		l <sub>D</sub>	65 50	А
Maximum Continuous Body Diode Forward Current (Note 5)	Is	3	Α	
Pulsed Drain Current (10µs Pulse, Duty Cycle = 1%)	I <sub>DM</sub>	100	Α	
Avalanche Current, L = 0.1mH (Note 7)	las	25	Α	
Avalanche Energy, L = 0.1mH (Note 7)	Eas	31	mJ	

#### **Thermal Characteristics**

Characteristic		Symbol	Value	Unit
Total Power Dissipation (Note 8)	T <sub>A</sub> = +25°C	PD	1.3	W
Thermal Resistance, Junction to Ambient (Note 8)	Steady State	$R_{\theta JA}$	99	°C/W
Total Power Dissipation (Note 5)	T <sub>A</sub> = +25°C	PD	2.6	W
Thermal Resistance, Junction to Ambient (Note 5)	Steady State	Reja	50	°C/W
Total Power Dissipation (Note 6)	Tc = +25°C	PD	42	W
Thermal Resistance, Junction to Case (Note 6)		R <sub>θJC</sub>	3	°C/W
Operating and Storage Temperature Range		TJ, TSTG	-55 to +150	°C

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

- 6. Thermal resistance from junction to soldering point (on the exposed drain pad).
- 7.  $I_{AS}$  and  $E_{AS}$  ratings are based on low frequency and duty cycles to keep  $T_{J} = +25^{\circ}C$ .
- 8. Device mounted on FR-4 PC board, with minimum recommended pad layout, single sided.



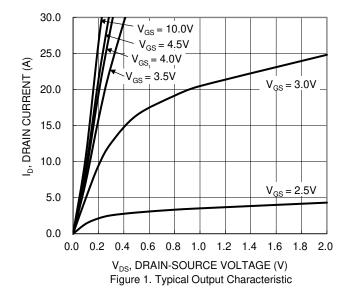
# **Electrical Characteristics** (T<sub>A</sub> = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Condition
OFF CHARACTERISTICS (Note 9)						
Drain-Source Breakdown Voltage	BV <sub>DSS</sub>	30	_	_	V	$V_{GS} = 0V, I_{D} = 250\mu A$
Zero Gate Voltage Drain Current	IDSS	_	_	1	μΑ	V <sub>DS</sub> = 24V, V <sub>GS</sub> = 0V
Gate-Source Leakage	Igss		_	±100	nA	V <sub>GS</sub> = 20V, V <sub>DS</sub> = 0V V <sub>GS</sub> = -16V, V <sub>DS</sub> = 0V
ON CHARACTERISTICS (Note 9)					I	, , , , , , , , , , , , , , , , , , , ,
Gate Threshold Voltage	V <sub>GS(TH)</sub>	1.0	_	3.0	V	$V_{DS} = V_{GS}$ , $I_D = 250\mu A$
Statia Dyain Caurea On Desigtance	Б	_	4.8	6	_	V <sub>GS</sub> = 10V, I <sub>D</sub> = 20A
Static Drain-Source On-Resistance	RDS(ON)	_	6.8	9.8	mΩ	VGS = 4.5V, ID = 20A
Diode Forward Voltage	V <sub>SD</sub>	_	0.7	1.0	V	VGS = 0V, IS = 2A
DYNAMIC CHARACTERISTICS (Note 10)	DYNAMIC CHARACTERISTICS (Note 10)					
Input Capacitance	Ciss	_	1,155	_		V <sub>DS</sub> = 15V, V <sub>GS</sub> = 0V f = 1.0MHz
Output Capacitance	Coss	1	456	_	рF	
Reverse Transfer Capacitance	Crss	1	72	_		
Gate Resistance	Rg	-	1.6	_	Ω	$V_{DS} = 0V$ , $V_{GS} = 0V$ f = 1.0MHz
Total Gate Charge (V <sub>GS</sub> = 10V)	Qg	_	16.7	_		V <sub>DD</sub> = 15V, I <sub>D</sub> = 9A
Total Gate Charge (VGS = 4.5V)	Qg	_	8.4	_	nC	
Gate-Source Charge	Qgs	_	2.2	_	IIC	
Gate-Drain Charge	Qgd	_	3.5	_		
Turn-On Delay Time	td(on)	_	3.5	_		$V_{DD} = 15V, V_{GS} = 10V$ $R_g = 3\Omega, I_D = 9A$
Turn-On Rise Time	tr	_	5.5	_		
Turn-Off Delay Time	tD(OFF)	_	13.5	_	ns	
Turn-Off Fall Time	tF	_	4.6	_		
Reverse Recovery Time	trr	_	19.3	_	ns	L 1 5 4 4 4 100 A / : -
Reverse Recovery Charge	Qrr	_	8.6	_	nC	IF = 1.5A, dl/dt = 100A/μs

Notes:

<sup>9.</sup> Short duration pulse test used to minimize self-heating effect.10. Guaranteed by design. Not subject to product testing.





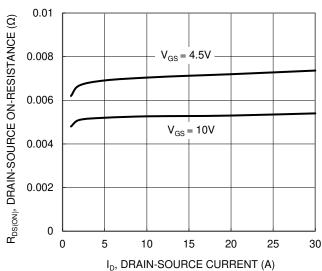


Figure 3. Typical On-Resistance vs. Drain Current and Gate Voltage

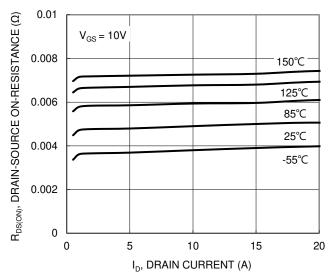
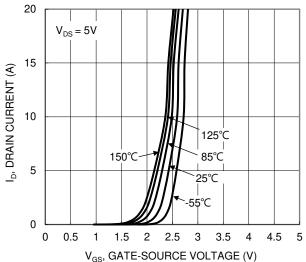


Figure 5. Typical On-Resistance vs. Drain Current and Temperature



V<sub>GS</sub>, GATE-SOURCE VOLTAGE (V)
Figure 2. Typical Transfer Characteristic

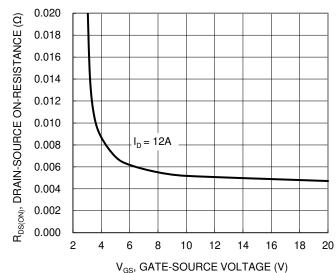
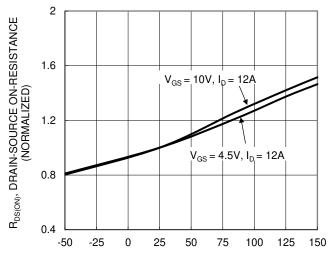


Figure 4. Typical Transfer Characteristic



T<sub>J</sub>, JUNCTION TEMPERATURE (°C) Figure 6. On-Resistance Variation with Temperature





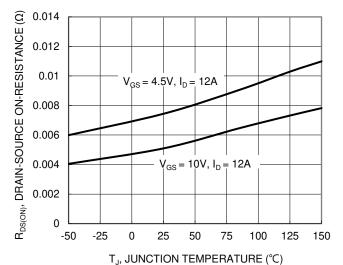
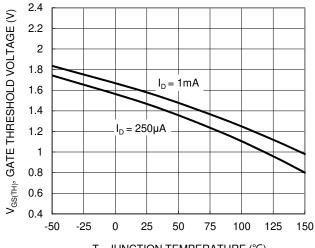
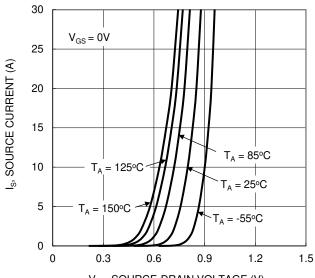


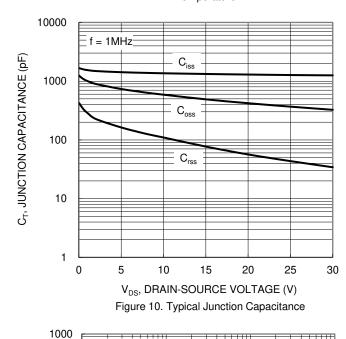
Figure 7. On-Resistance Variation with Temperature

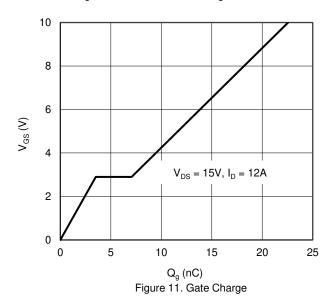


T<sub>J</sub>, JUNCTION TEMPERATURE (°C) Figure 8. Gate Threshold Variation vs. Junction Temperature



V<sub>SD</sub>, SOURCE-DRAIN VOLTAGE (V) Figure 9. Diode Forward Voltage vs. Current





 $R_{\text{DS}(\text{ON})}$  Limited 100 ID, DRAIN CURRENT (A)  $=100 \mu s$ 10 P<sub>W</sub> =10ms P<sub>w</sub> =100ms  $T_{J(Max)} = 150$ °C  $T_C = 25$ °C Single Pulse **DUT** on Infinite Heatsink  $V_{GS} = 10V$ 0.1 0.1 10 100 V<sub>DS</sub>, DRAIN-SOURCE VOLTAGE (V)

Figure 12. SOA, Safe Operation Area



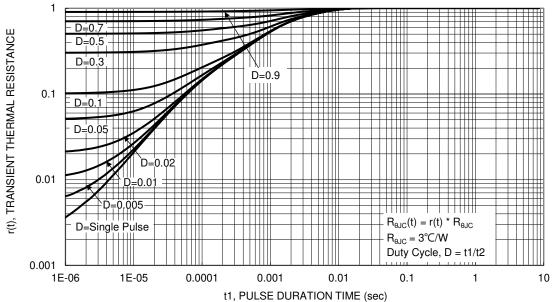


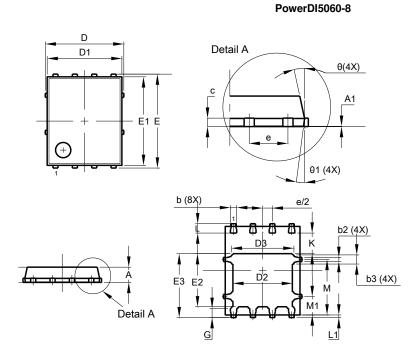
Figure 13. Transient Thermal Resistance



# **Package Outline Dimensions**

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

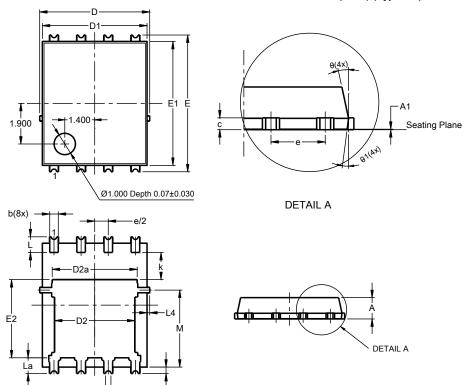
Site 1:



PowerDI5060-8				
Dim	Min	Max	Тур	
Α	0.90	1.10	1.00	
<b>A</b> 1	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	
D	ļ	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	1.27 BSC			
G	0.51	0.71	0.61	
K	0.51	-	-	
L	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)



Dim         Min         Max         Typ           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           L1         0.200         0.400         0.300           L1         0.005         0.225         0.125           M         3.205	PowerDI5060-8 (SWP) (Type UX)				
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         L           La         0.635         0.835         0.735         L           L1         0.200         0.400         0.300         L           L4         0.025         0.225         0.125         M           M         3.205         4.005         3.605         M           M	Dim				
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           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L1a         0.050REF           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           M         10°         12°         11°	Α	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         4.70         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         L           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L1a         0.050REF           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           H         10°         12°         11°	<b>A</b> 1	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           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L1a         0.050REF           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°	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           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L1a         0.050REF           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°	b2	0.20	0.35	0.25	
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           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L1a         0.050REF           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°	b4	C	).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         4.005             L         0.635         0.835         0.735           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L1a         0.050REF         L4         0.025         0.225         0.125           M         3.205         4.005         3.605         9         10°         12°         11°		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           La         0.635         0.835         0.735         L1         0.200         0.400         0.300           L1         0.025         0.225         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°		5	.15 BS0	5	
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         4.395         4.395           k         1.05             L         0.635         0.835         0.735           La         0.635         0.835         0.735           L1         0.200         0.400         0.300           L1a         0.050REF           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°	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  k 1.05  L 0.635 0.835 0.735  La 0.635 0.835 0.735  L1 0.200 0.400 0.300  L1a 0.050REF  L4 0.025 0.225 0.125  M 3.205 4.005 3.605  θ 10° 12° 11°	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  k 1.05  L 0.635 0.835 0.735  La 0.635 0.835 0.735  L1 0.200 0.400 0.300  L1a 0.050REF  L4 0.025 0.225 0.125  M 3.205 4.005 3.605  θ 10° 12° 11°	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       L1a     0.050REF       L4     0.025     0.225     0.125       M     3.205     4.005     3.605       θ     10°     12°     11°	_				
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         L1a       0.050RE         L4       0.025       0.225       0.125         M       3.205       4.005       3.605         θ       10°       12°       11°	E1	5.60	6.00		
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           L1a         0.050REF           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°	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           L1a         0.050REF           L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°	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 L1a 0.050REF L4 0.025 0.225 0.125 M 3.205 4.005 3.605 θ 10° 12° 11°		1	.27BSC	)	
La 0.635 0.835 0.735 L1 0.200 0.400 0.300 L1a 0.050REF  L4 0.025 0.225 0.125 M 3.205 4.005 3.605 θ 10° 12° 11°	k	1.05			
L1 0.200 0.400 0.300 L1a 0.050REF L4 0.025 0.225 0.125 M 3.205 4.005 3.605 θ 10° 12° 11°	L	0.635	0.835	0.735	
L1a 0.050REF L4 0.025 0.225 0.125 M 3.205 4.005 3.605 θ 10° 12° 11°	La	0.635	0.835	0.735	
L4         0.025         0.225         0.125           M         3.205         4.005         3.605           θ         10°         12°         11°	L1	0.200	0.400	0.300	
M 3.205 4.005 3.605 θ 10° 12° 11°	L1a	0.050REF			
θ 10° 12° 11°	L4	0.025	0.225	0.125	
			4.005	3.605	
	θ				
<b>θ1</b> 6° 8° 7°	θ1	6°	8°	7°	
All Dimensions in mm					

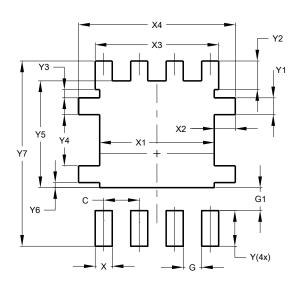


# **Suggested Pad Layout**

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

Site 1:

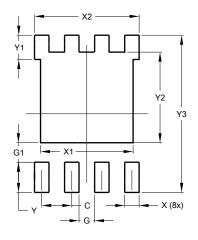
#### PowerDI5060-8



Dimensions	Value (in mm)
С	1.270
G	0.660
G1	0.820
X	0.610
X1	4.100
X2	0.755
Х3	4.420
X4	5.610
Υ	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
Difficilisions	(in mm)
С	1.270
G	0.660
G1	0.820
Χ	0.610
X1	4.100
X2	4.420
Υ	1.270
Y1	1.020
Y2	3.810
Y3	6.610



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