

Marking Information

MW5 YM

MW5 = Product Type Marking Code YM = Date Code Marking Y = Year (ex: I = 2021)

M = Month (ex: 9 = September)

Date Code Key

Year	2017		2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Code	Е		ı	J	K	L	М	N	0	Р	R	S
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Maximum Ratings (@ $T_A = +25^{\circ}C$, unless otherwise specified.)

Characteristic	Symbol	Value	Unit	Conditions
Peak Pulse Current, per IEC 61000-4-5	IPР	5	Α	I/O to Vss, 8/20µs
Peak Pulse Power, per IEC 61000-4-5	P _{PP}	47	W	I/O to V _{SS} , 8/20µs
ESD Protection – Contact Discharge, per IEC 61000-4-2	Vesd_contact	±12	kV	I/O to Vss
ESD Protection – Air Discharge, per IEC 61000-4-2	Vesd_air	±14	kV	I/O to Vss
Operating Temperature	T _{OP}	-55 to +85	°C	_
Storage Temperature	T _{STG}	-55 to +150	°C	_

Thermal Characteristics

Characteristic	Symbol	Value	Unit
Power Dissipation Typical (Note 5)	PD	350	mW
Thermal Resistance, Junction to Ambient Typical (Note 5)	RθJA	360	°C/W

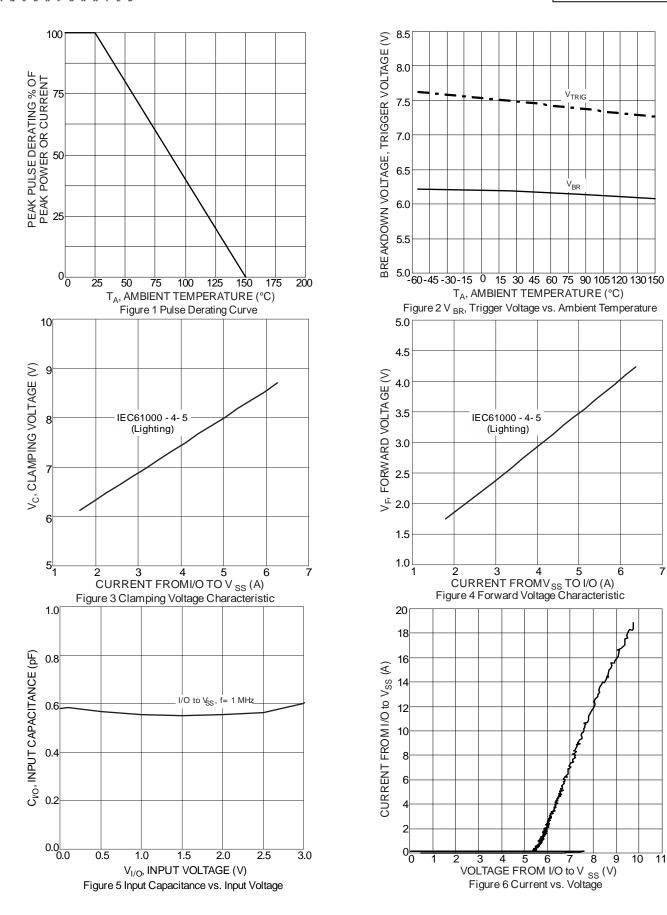
Electrical Characteristics (@TA = +25°C, unless otherwise specified.)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Conditions
Reverse Working Voltage	VRWM	_	_	3.3	V	_
Reverse Current	IR	_	_	1.0	μΑ	V _R = 3.3V, I/O to V _{SS}
Reverse Breakdown Voltage	V _{BR}	5	_	_	V	I _R = 1mA, I/O to V _{SS}
Forward Clamping Voltage	V _F	-1.0	-0.85	_	V	$I_F = -15 \text{mA}$, I/O to V_{SS}
Reverse Clamping Voltage (Note 6)	Vc	_	8.2	9.5	V	IPP = 5A, I/O to Vss, 8/20µs
ESD Clamping Voltage	Vesd	_	7.5	_	V	TLP, 10A, tp = 100ns, I/O to Vss
Dynamic Reverse Resistance	R _{DIF-R}	_	0.2	_	Ω	TLP, 10A, $t_P = 100$ ns, I/O to V_{SS}
Dynamic Forward Resistance	Rdif-F	_	0.2	_	Ω	TLP, 10A, tp = 100ns, Vss to I/O
Channel Input Capacitance	C _{I/O}	_	0.55	0.65	pF	V _{I/O} = 2.5V, V _{SS} = 0V, f = 1MHz
Delta C _{I/O}	CI/OMAX-CI/OMIN	_	0.04	_	pF	C _I /OMAX-C _I /OMIN

Notes: 5. Device mounted on FR-4 PCB pad layout (2oz copper) as shown on Diodes Incorporated's website at http://www.diodes.com/package-outlines.html.

6. Clamping voltage value is based on an 8x20µs peak pulse current (I_{PP}) waveform.





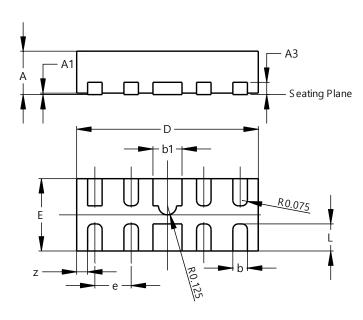
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Package Outline Dimensions

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

U-DFN2510-10

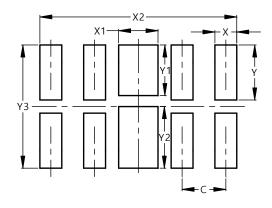


U-DFN2510-10					
Dim	Min	Max	Тур		
Α	0.545	0.605	0.575		
A 1	0.00	0.05	0.03		
A3	-	-	0.13		
b	0.15	0.25	0.20		
b1	0.35	0.45	0.40		
D	2.450	2.575	2.500		
е	-	-	0.50		
Е	0.950	1.075	1.000		
L	0.325	0.425	0.375		
Z	-	-	0.150		
All Dimensions in mm					

Suggested Pad Layout

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

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Dimensions	Value (in mm)			
С	0.500			
Х	0.250			
X1	0.450			
X2	2.250			
Y	0.625			
Y1	0.575			
Y2	0.700			
Y3	1.400			



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