



## Absolute Maximum Rating

Symbol	Parameter	Value	Units
$I_{PP}$	Peak Pulse Current (8/20 $\mu$ s)	6	A
$P_{PK}$	Peak Pulse Power (8/20 $\mu$ s)	33	W
$V_{ESD}$	ESD per IEC61000-4-2 (Air) ESD per IEC61000-4-2 (Contact)	$\pm 10$ $\pm 10$	kV
$T_{OPT}$	Operating Temperature	-55/+125	$^{\circ}$ C
$T_{STG}$	Storage Temperature	-55/+150	$^{\circ}$ C

## Electrical Characteristics (T = 25 $^{\circ}$ C)

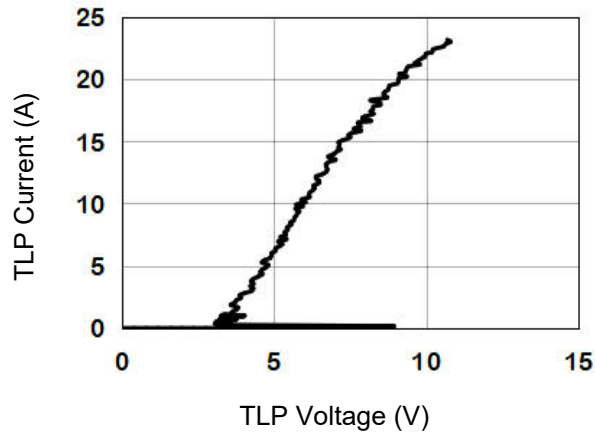
Symbol	Parameter	Diagram
$V_{RWM}$	Nominal Reverse Working Voltage	
$I_R$	Reverse Leakage Current @ $V_{RWM}$	
$V_{BR}$	Reverse Breakdown Voltage @ $I_T$	
$I_T$	Test Current for Reverse Breakdown	
$V_C$	Clamping Voltage @ $I_{PP}$	
$I_{PP}$	Maximum Peak Pulse Current	
$C_{ESD}$	Parasitic Capacitance	
$R_{dyn}$	Dynamic Resistance	

Symbol	Test Condition	Minimum	Typical	Maximum	Units
$V_{RWM}$				5.0	V
$I_R$	$V_{RWM} = 5.0V, T = 25^{\circ}C$		1	10	nA
$V_{BR}$	$I_T = 1mA$	6.0	7.2		V
$V_C$	$I_{PP} = 6A, t_p = 8/20\mu s$		5.5	8.0	V
$V_C$	$I_{PP} = 8.0A, t_p = 100ns^{(1)}$		6.0		V
	$I_{PP} = 16.0A, t_p = 100ns^{(1)}$		8.0		V
$R_{dyn}$	$I_{PP} = 12.0A, t_p = 100ns^{(1)}$		0.3		$\Omega$
$C_{ESD}$	$V_R = 0V, f = 1MHz$		0.3	0.35	pF

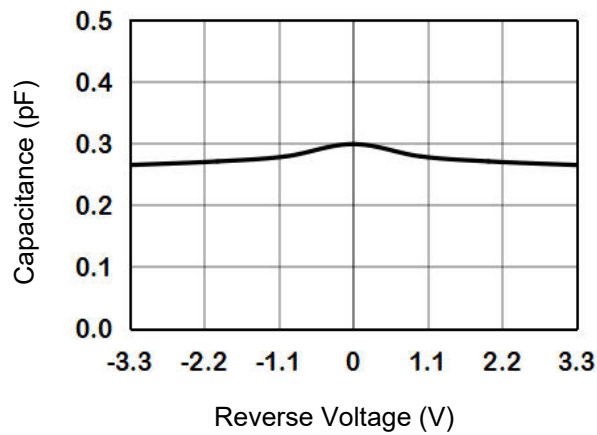
Notes:(1)Measurements performed using a 100ns Transmission Line Pulse(TLP) system.

## Typical Performance Characteristics

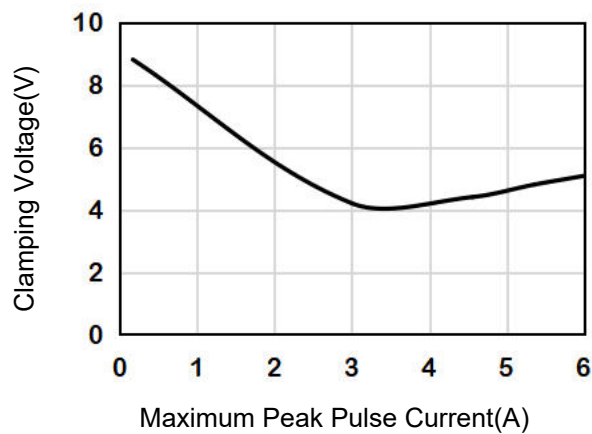
**TLP Measurement of I/O to I/O**



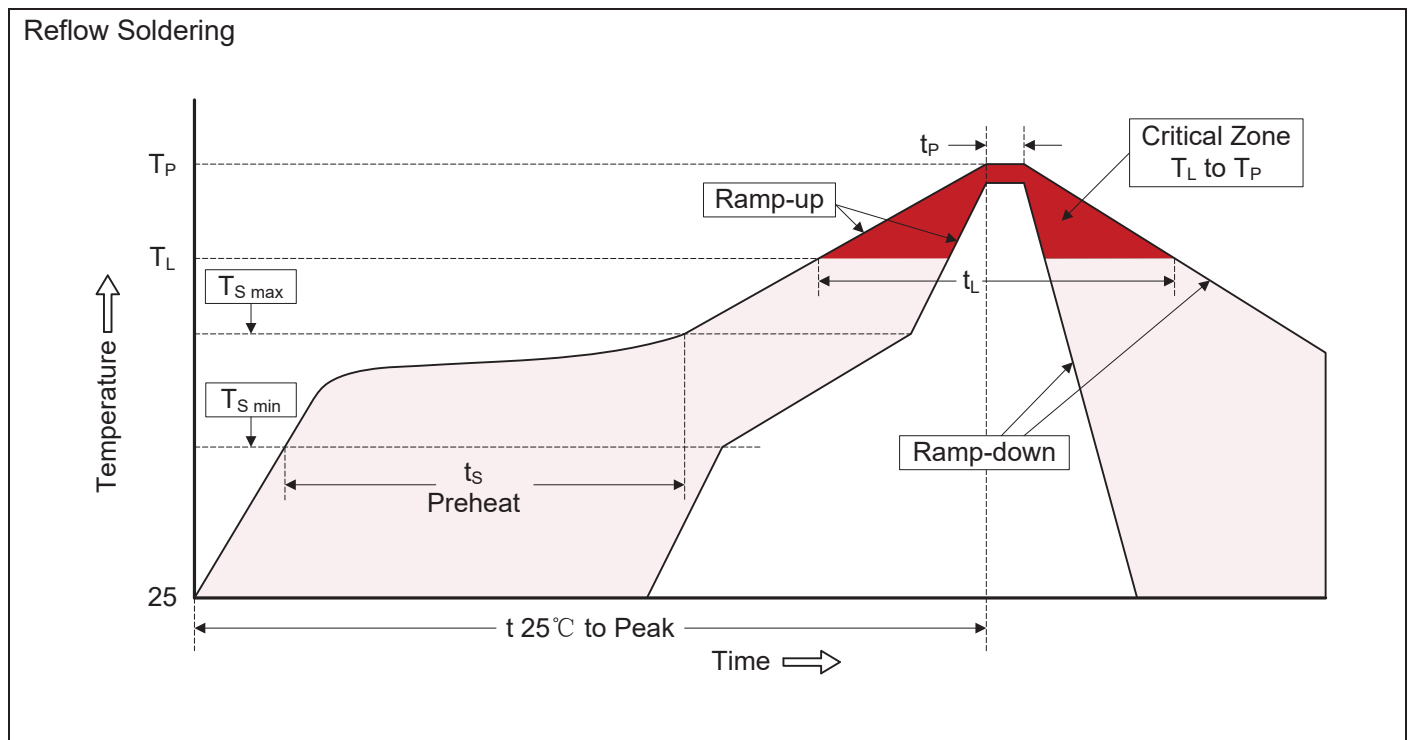
**Capacitance vs Reverse Voltage IO to IO**



**8/20us Current IO to IO**



## Recommended Soldering Conditions

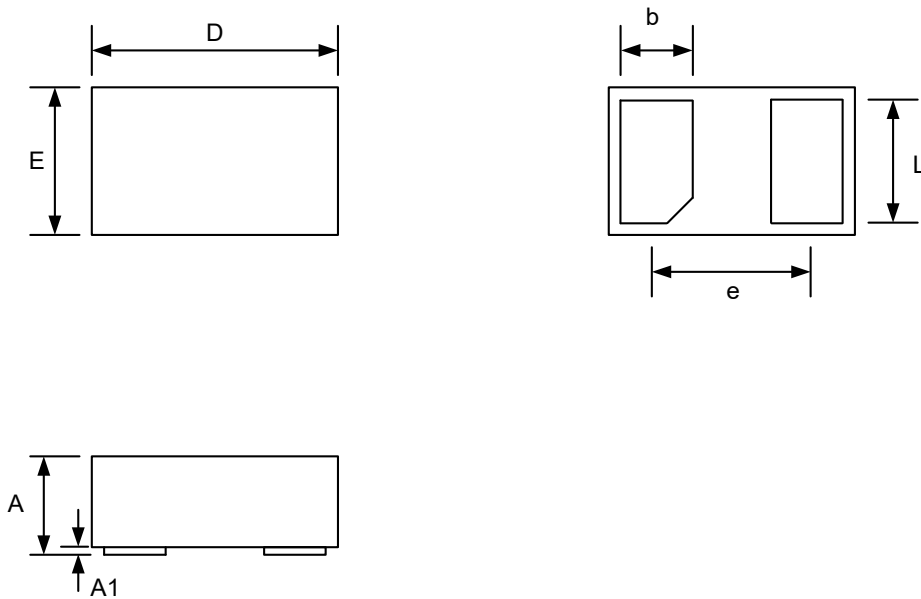


Recommended Conditions

Profile Feature	Pb-Free Assembly
Average ramp-up rate ( $T_L$ to $T_P$ )	3°C/second max.
Preheat -Temperature Min ( $T_{S\ min}$ ) -Temperature Max ( $T_{S\ max}$ ) -Time (min to max) ( $t_s$ )	150°C 200°C 60-180 seconds
$T_{S\ max}$ to $T_L$ -Ramp-up Rate	3°C/second max.
Time maintained above: -Temperature ( $T_L$ ) -Time ( $t_L$ )	217°C 60-150 seconds
Peak Temperature ( $T_P$ )	260°C
Time within 5°C of actual Peak Temperature ( $t_P$ )	20-40 seconds
Ramp-down Rate	6°C/second max.
Time 25°C to Peak Temperature	8 minutes max.

## Package Outline

- ❑ DFN0603-2L package
- ❑ 2 leads, very small package
- ❑ MSL-1



Package Dimensions (Controlling dimensions are in millimeters)

Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Minimum	Maximum	Minimum	Maximum
A	0.250	0.350	0.010	0.014
A1	0.000	0.020	0.000	0.001
D	0.550	0.650	0.022	0.026
E	0.250	0.350	0.010	0.014
b	0.150	0.250	0.006	0.010
e	0.350 BSC		0.014 BSC	
L	0.180	0.280	0.007	0.011



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