

Features

- Low Capacitance
- Low Operating Voltage
- Low Clamping Voltage
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC3603P3	3603 or 3654P

DP, DM, USB ID (Pins 1, 2, 3)

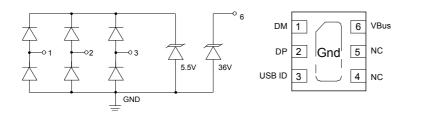
IEC61000-4-2(ESD)	Air Contact	±25KV ±20KV		
IEC61000-4-4 (EFT) @5/50ns		40A		
Peak Pulse Current(8/20µs)	I _{PP}	5A		
Peak Pulse Power (8/20µs)	P _{PK}	100W		

VBus (Pin 6)

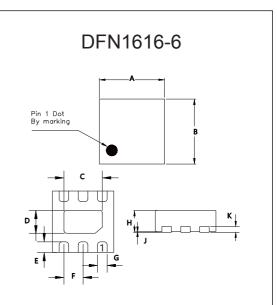
IEC61000-4-2(ESD)	Air Contact	±25KV ±20KV		
IEC61000-4-4 (EFT) @5/50ns		40A		
Peak Pulse Current(8/20µs)	I _{PP}	4A		
Peak Pulse Power (8/20µs)	P _{PK}	300W		

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Circuit and Pin Schematic

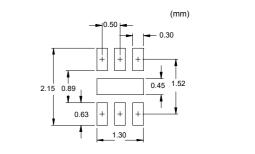






	DIMENSIONS				
DIM	INC	HES	MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.061	0.065	1.55	1.65	
В	0.061	0.065	1.55	1.65	
С	0.035	0.041	0.90	1.05	
D	0.020	0.026	0.50	0.65	
Е	0.008	0.012	0.20	0.30	
F	0.0	0.020		50	TYP.
G	0.008	0.012	0.20	0.30	
Н	0.020	0.024	0.50	0.60	
J	0.000	0.002	0.00	0.05	
К	0.0	06	0.1	5	TYP.

SUGGESTED SOLDER PAD LAYOUT



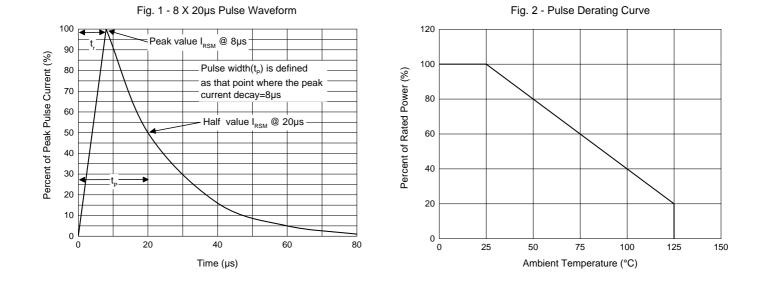


Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
DP, DM, USB ID TVS						
Reverse Working Voltage	V _{RWM}	Any I/O Pin to Ground			5.5	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA, Any I/O Pin to Ground	6.5			V
Reverse Leakage Current	۱ _R	V _{RWM} =5.5V, Any I/O Pin to Ground			0.5	μA
Clamping Voltage	Vc	I _{PP} =1A, t _P =8/20μs, Any I/O Pin to Ground			10	v
Clamping Voltage	V _C	I _{PP} =5A, t _P =8/20μs, Any I/O Pin to Ground			20	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz, Between Any I/O Pins			0.5	pF
Junction Capacitance	CJ	V _R = 0V, f = 1MHz, Any I/O Pin to Ground			0.8	pF
/Bus TVS						
Reverse Working Voltage	V _{RWM}	Pin 6 to Ground			36	V
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA, Pin 6 to Ground	38		45	V
Reverse Leakage Current	I _R	V _{RWM} =5.5V, Pin 6 to Ground			0.2	μA
Clamping Voltage	V _c	I _{PP} =1A, t _P =8/20µs, Pin 6 to Ground			50	V
Clamping Voltage	V _C	I _{PP} =4A, t _P =8/20µs, Pin 6 to Ground			75	V
Junction Capacitance	CJ	$V_R = 0V$, f = 1MHz, Pin 6 to Ground			100	pF



Curve Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 3Kpcs/Reel		

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