

Features

- Small Body Outline Dimensions:
0.60 mm x 0.30 mm
- Bidirectional ESD Protection of one line
- Low Clamping Voltage
- Low Capacitance: 3 pF
- Working Voltage: 5 V
- Low Leakage Current

IEC COMPATIBILITY (EN61000-4)

- IEC 61000-4-2 (ESD) $\pm 15\text{kV}$ (air), $\pm 10\text{kV}$ (contact)
- IEC 61000-4-4 (EFT) 40A (5/50ns)
- IEC 61000-4-5 (Lightning) 3.5A (8/20 μs)

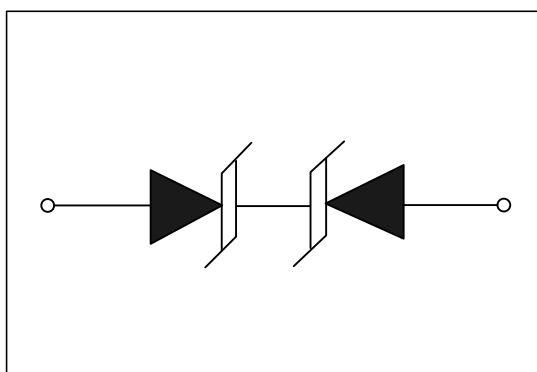
Mechanical Characteristics

- DFN0603-D package
- Molding compound flammability rating:
UL 94V-0
- Marking: Marking Code
- Packaging: Tape and Reel per EIA 481
- RoHS Compliant

Applications

- Cellular handsets and accessories
- Portable electronics
- Communication systems
- Computers and peripherals

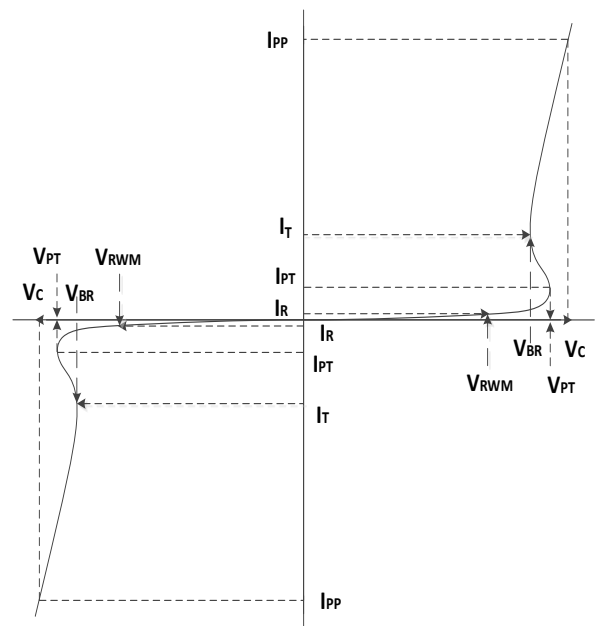
Schematic & PIN Configuration



Absolute Maximum Rating			
Rating	Symbol	Value	Units
Electrostatic discharge Voltage	V _{ESD}	10KV (contact)	Volts
		15KV (air)	
Peak Pulse Current (t _p = 8/20μs)	I _{pp}	3.5	A
Operating Temperature	T _J	-55 to + 125	°C
Storage Temperature	T _{STG}	-55 to +150	°C

Electrical Parameters (T=25 °C)

Symbol	Parameter
I _{PP}	Reverse Peak Pulse Current
V _C	Clamping Voltage @ I _{PP}
V _{RWM}	Working Peak Reverse Voltage
I _R	Reverse Leakage Current @ V _{RWM}
V _{BR}	Breakdown Voltage @ I _T
I _T	Test Current
V _{PT}	Punch-through Breakdown Voltage @ I _{PT}
I _{PT}	Punch-through Current



Electrical Characteristics

WE05DLCS-B						
Parameter	Symbol	Conditions	Minimum	Typical	Maximum	Units
Reverse Stand-Off Voltage	V _{RWM}				5.0	V
Reverse Breakdown Voltage	V _{BR}	I _T =1mA	5.5			V
Reverse Leakage Current	I _R	V _{RWM} =5V, T=25°C			100	nA
Clamping Voltage	V _C	I _{PP} =3.5A, t _p =8/20μs			13.5	V
Junction Capacitance	C _j	V _R = 0V, f= 1MHz		3	3.5	pF

Note1: ESD Pulse Waveform according to IEC 61000-4-2. see Table1 and Figure4.

Note2: ESD tests Setup see Figure 5.

Typical Characteristics

Figure 1: Pulse Waveform

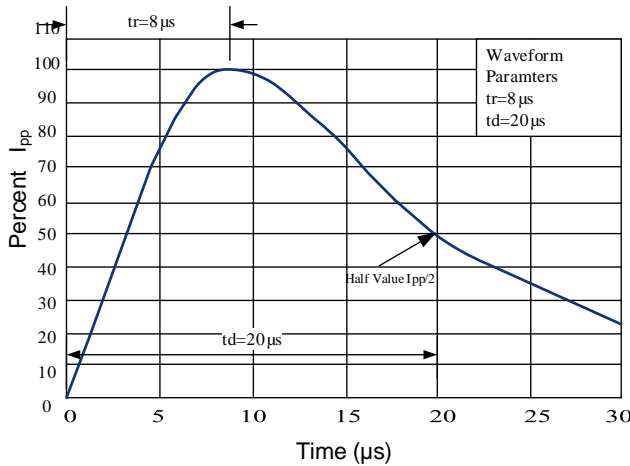


Figure 2: Power Derating Curve

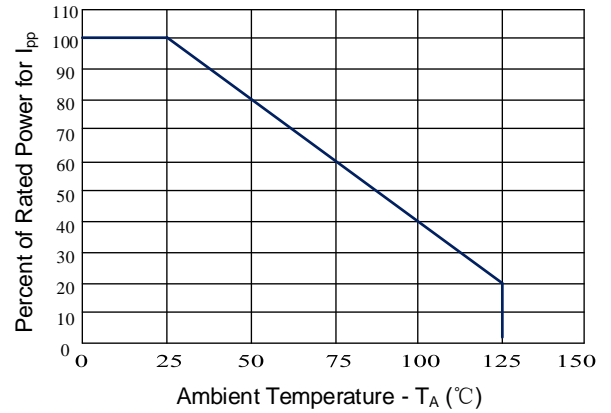


Figure 3: Normalized Junction Capacitance

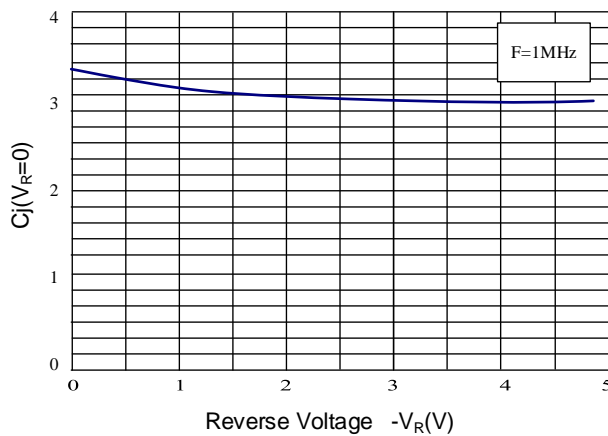


Table 1. IEC 61000-4-2 Discharge Parameters

Level	First Peak Current (A)	Peak Current at 30 ns (A)	Peak Current at 60 ns (A)	Test Voltage (Contact Discharge) (kV)	Test Voltage (Air Discharge) (kV)
1	7.5	4	2	2	2
2	15	8	4	4	4
3	22.5	12	6	6	8
4	30	16	8	8	15

Figure 4: ESD Clamping(8kV Contact per IEC 61000-4-2)

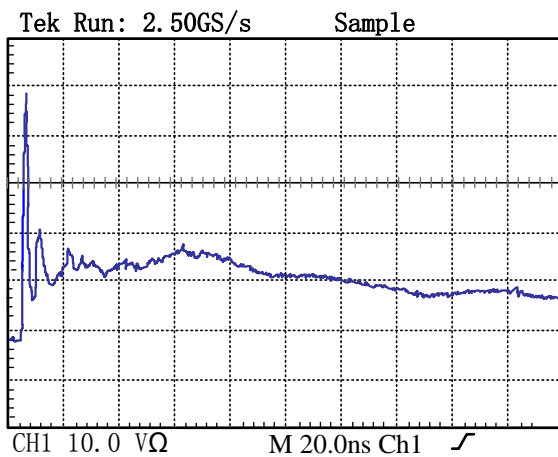
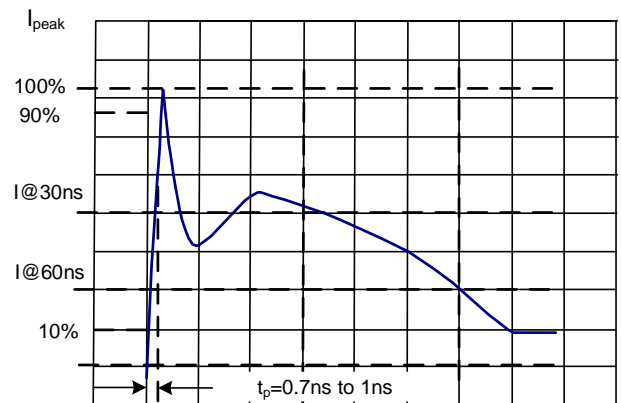


Figure 5: IEC 61000-4-2 Waveform



Outline Drawing –DFN0603-D

PACKAGE OUTLINE

DFN0603-D

SYMBOL	MILIMETER	
	MIN	MAX
A	0.28	0.34
D	0.58	0.64
E	0.27	0.33
b	0.20	0.26
e	0.340	
m	0.150	
h	0.16	0.25

Land Pattern

Marking Codes

Part Number	Marking Code
WE05DLCS-B	<p>C = Specific Device Code M = Month Code</p>

Package Information

Qty: 15k/Reel

CONTACT INFORMATION

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For additional information, please contact your local Sales Representative.

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Specifications are subject to change without notice.
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
Users should verify actual device performance in their specific applications.