ESD0603UC5VB



ESD0603UC5VB Ultra low capacitance ESD Protection Diode

General description

Ultra low capacitance ESD Protection Diode in a DFN0603 Package.

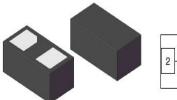
FEATURES

- Ultra low Capacitance Typ 0.2 pF
- 100Watts peak pulse power(tp=8/20uS)
- Tiny DFN0603 package
- · Bidirectional configurations
- R2R + Zener Technology
- Low Clamping voltage
- Low leakage current

Absolute Maximum Ratings (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Value	Units
T∟	Max Lead Solder Temperature range (10 Second Duration)	260	°C
T _{stg}	Storage Temperature Range	-55 to +150	°C
T _{OP}	Max operation Temperature Range	125	°C
ESD	IEC61000-4-4 (EFT 5/50nS)	40	Α
ESD	IEC61000-4-5 (8/20uS)	5	Α
ESD	IEC61000-4-2 Air Discharge Contact Discharge	±20 ±15	KV

Package Outline





DFN0603 Package

Device Marking:

Device Type	Marking		
ESD0603UC5VB	U5 or 5BU		

Symbol	Parameter	Value	Units	
Vesd	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±20 ±15	kV	
Ipp	Peak Pulse Current (8/20μs)	5	A	
Ppp	Ppp Peak Pulse Power (8/20μs)		W	

ABSOLUTE MAXIMUM RATING

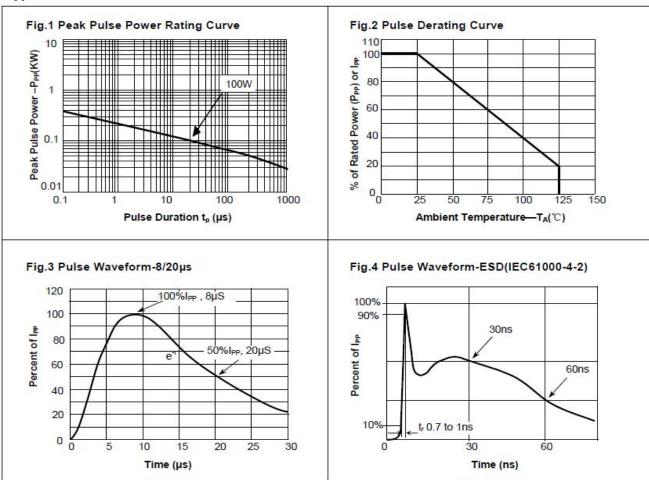
Electrical Characteristics (T_A = 25°C unless otherwise noted)

Symbol	Parameter	Test Condition	Min	Тур	Max	Units
Vrwm	Reverse Working Voltage				5	V
VBR	Reverse Breakdown Voltage	$I_T = 1 \text{mA}$	5.5	8.5		V
Ir	Reverse Leakage Current	$V_{RWM} = 5V$		5	100	nA
$V_{\rm C}$	Clamping Voltage	$I_{PP} = 5A, t_p = 8/20 \mu s$			20	V
$V_{\rm C}$	Clamping Voltage	V _{ESD} =8kV		20		V
C_{J}	Junction Capacitance	$V_R = 0V$, $f = 1MHz$		0.2		pF

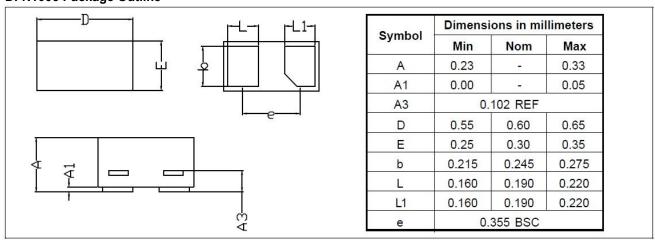
ESD0603UC5VB



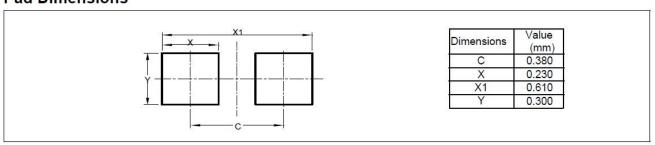
Typical Characteristic:



DFN1006 Package Outline



Pad Dimensions





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