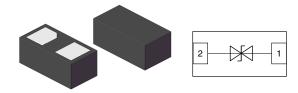


CREATEK Microelectronics

Low Capacitance ESD Protection Diode in DFN0603

Features

- 40Watts peak pulse power (tp = 8/20µs)
- Tiny DFN0603 package
- Bidirectional configurations
- R2R + Zener technology
- Low clamping voltage
- Low leakage current
- Low capacitance (Cj=2.7pF typ.)
- Protection one data/power line to: IEC 61000-4-2 ±10kV contact ±15kV air IEC 61000-4-4 (EFT) 40A (5/50ns) IEC 61000-4-5 (Lightning) 3.5A (8/20µs)



Mechanical Data

- Case: DFN0603 (plastic package). Lead free; RoHS compliant
- Molding Compound Flammability Rating: UL 94 V-0
- **Terminals:** High temperature soldering guaranteed: 260 °C/10 sec. at terminals

Applications

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
Peak Pulse Power (T _P =8/20µS)	P _{PP}	40	W
ESD contact/air discharge (IEC-61000-4-2)	V_{ESD}	10/15	kV
Peak Pulse Current (t₂ = 8/20µS)	I _{PP}	3.5	Α
Junction Temperature	T_J	-55 to +125	$^{\circ}$
Storage temperature	T _{STG}	-55 to +150	$^{\circ}$ C
Maximum Lead Solder Temperature(10 second duration)	TL	260	$^{\circ}$ C

Electrical Characteristics

 $(T_A = 25 \, ^{\circ}C \text{ unless otherwise specified})$

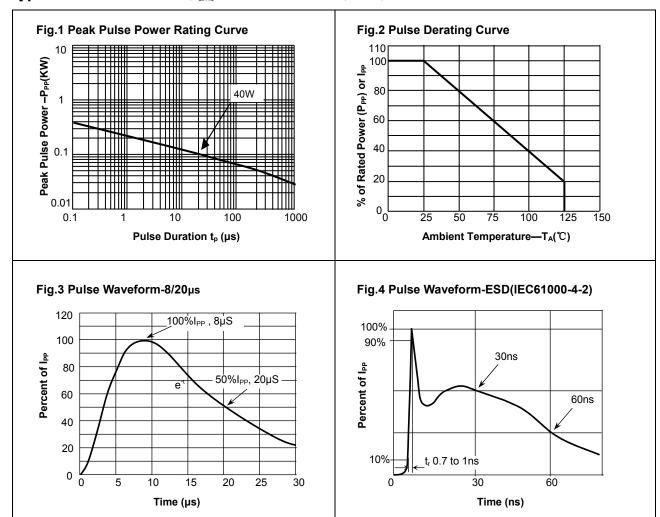
Parameter	Symbol	Condition	Min	Тур	Max	Unit
Reverse stand-off Voltage	V_{RWM}				5.0	V
Reverse Breakdown Voltage	V_{BR}	I _T =1mA	5.5	6.5	8.5	V
Reverse Leakage Current	I _R	V _R =5.0V		0.1	0.5	uA
Clamping Voltage (IEC 61000-4-5)	V _C	I _{PP} =3.5A			11	V
Clamping Voltage (IEC 61000-4-2)	Vc	V _{ESD} =8kV		10		V
Junction Capacitance	CJ	V _R =0V, f=1MHz		2.7	3.5	pF

Rev. 2.0 www.crea-tek.com

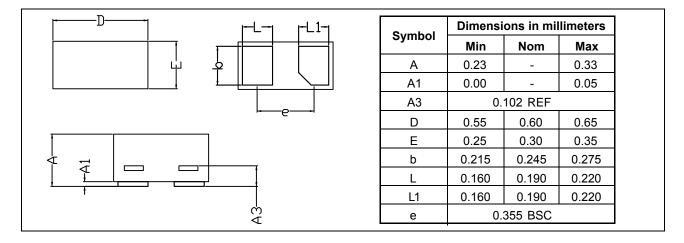


CREATEK Microelectronics

Typical Characteristics (T_{amb} = 25 °C unless otherwise specified)



Package Dimensions

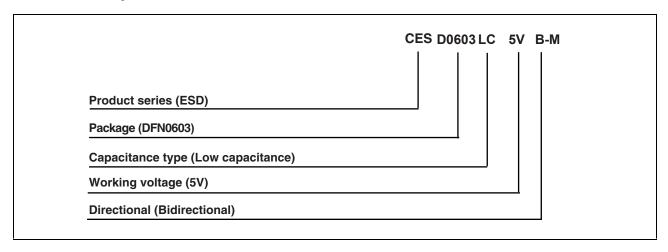


Rev. 2.0 www.crea-tek.com

CESD0603LC5VB-M

CREATEK Microelectronics

Part number system



Marking

F

Ordering inormation

Order code	Package	Packaging option	Base quantity	Packaging specification
CESD0603LC5VB-M	DFN0603	Tape and reel	10000pcs / reel	EIA STD RS-481

Revision history

Date	Revision	Changes
23-May-2012	1.0	Initial release
23-July-2018	2.0	Base quantity Change:from15K to 10K

Rev. 2.0 www.crea-tek.com



CESD0603LC5VB-M

CREATEK Microelectronics

CAUTION / WARNING

Information in this document is believed to be accurate and reliable. However, CREATEK does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information.

Users should independently evaluate the suitability of and test each product selected for their own applications, and CREATEK assumes no liability whatsoever relating to the choice, selection or use of the CREATEK products and services described herein.

CREATEK reserves the right to change or update, without notice, any information contained in this publication; to change, without notice, the design, construction, processing, or specification of any product; and to discontinue or limit production or distribution of any product.

Information in this document supersedes and replaces all information previously supplied.

Products are not designed, authorized or warranted to be suitable for use in medical, military, aircraft, space or life support equipment, nor in applications where failure or malfunction of an CREATEK product can reasonably be expected to result in personal injury, death or severe property or environmental damage. CREATEK accepts no liability for inclusion and/or use of CREATEK products in such equipment or applications and therefore such inclusion and/or use is at the customer's own risk.

This document as well as the item(s) described herein may be subject to export control regulations. Export might require a prior authorization from national authorities.

Resale of CREATEK products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by CREATEK for the CREATEK product or service described herein and shall not create or extend in any manner whatsoever, any liability of CREATEK.

CREATEK expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. CREATEK only obligations are those in the CREATEK Standard Terms and Conditions of Sale and in no case will CREATEK be liable for any incidental, indirect, or consequential damages arising from the sale, resale, use, or misuse of its products.

Specifications are subject to change without notice

© Copyright 2009,CREATEK Microelectronics

CREATEK® is a registered trademark of CREATEK Microelectronics

All rights reserved

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for ESD Suppressors / TVS Diodes category:

Click to view products by CREATEK manufacturer:

Other Similar products are found below:

60KS200C D18V0L1B2LP-7B D5V0F4U5P5-7 DESD5V0U1BB-7 NTE4902 P4KE27CA P6KE11CA P6KE39CA-TP P6KE8.2A

SA110CA SA60CA SA64CA SMBJ12CATR SMBJ33CATR SMBJ8.0A ESD101-B1-02ELS E6327 ESD105-B1-02EL E6327 ESD112-B1
02EL E6327 ESD119B1W01005E6327XTSA1 ESD5V0L1B02VH6327XTSA1 ESD7451N2T5G 19180-510 CPDT-5V0USP-HF

3.0SMCJ33CA-F 3.0SMCJ36A-F HSPC16701B02TP D3V3Q1B2DLP3-7 D55V0M1B2WS-7 DESD5V0U1BL-7B DRTR5V0U4SL-7

SCM1293A-04SO ESD200-B1-CSP0201 E6327 SM12-7 SMF8.0A-TP SMLJ45CA-TP CEN955 W/DATA 82350120560 VESD12A1A
HD1-GS08 CPDUR5V0R-HF CPDQC5V0U-HF CPDQC5V0USP-HF CPDQC5V0-HF D1213A-01LP4-7B D1213A-02WL-7

MMAD1108/TR13 5KP100A 5KP15A 5KP18A 5KP48A 5KP90A