

SGMDxxC-C Series

350W, 3.3V~36V

Transient Voltage Suppressors for ESD Protection (Bi-direction)

RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

DESCRIPTION

The SGMDxxC-C Series is designed for applications requiring transient overvoltage protection capability. They are intended for use in voltage and ESD sensitive equipment such as computers, printers, business machines, communication systems, medical equipment and other applications. These devices are ideal for situations where board space is at a premium.

This series has been specifically designed to protect sensitive components which are connected to power \(\) data and transmission lines from overvoltage caused by ESD(electrostatic discharge), CDE (Cable Discharge Events), and EFT (electrical fast transients).

FEATURES

- IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- IEC61000-4-4 (EFT) 40A (5/50ns)
- Protects two bidirectional lines
- Low clamping voltage
- Low Leakage Current
- Flammability Rating: UL 94V-0

APPLICATIONS

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation
- Networking and Telecom
- Serial and Parallel Ports
- Peripherals

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOT-23	3K	7 inch

ORDER INFORMATION

Part Number	Туре				
SGMDxxC-C Series	Lead (Pb)-free and Halogen-free				

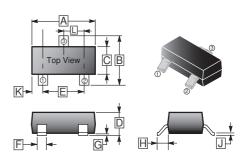
ABSOLUTE MAXIMUM RATING

Parameter		Symbol	Ratings	Unit	
IFC61000 4 2 FSD Voltage	Air Model	\/	±15	147	
IEC61000-4-2 ESD Voltage	Contact Model	V _{ESD}	±8	kV	
Peak Pulse Power @tp=8/20µs		P _{PP}	350	W	
Lead Solder Temperature (10 Sec.)		T∟	260		
Operating Temperature		Торт	-55~150	C	
Storage Temperature Range		T _{STG}	-55~150		

http://www.SeCoSGmbH.com/

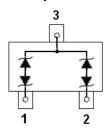
Any changes of specification will not be informed individually

S	0.	T-	.2	3



REF.	Millimeter		REF.	Millimeter		
KEF.	Min.	Max. KEr. Min.		Max.		
Α	2.70	3.10	G	0	0.18	
В	2.10	3.00	Ι	0.55 REF.		
С	1.20	1.80	7	0.08	0.26	
D	0.89	1.3	K	0.6 REF.		
Е	1.70	2.3	١	0.95 BSC.		
F	0.30	0.50				

Top View



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SGMDxxC-C Series

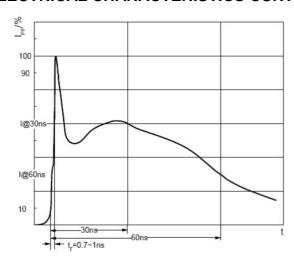
350W, 3.3V~36V

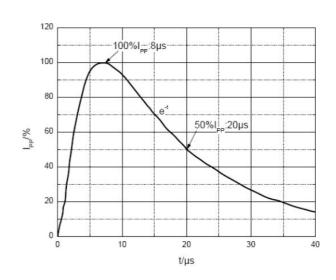
Transient Voltage Suppressors for ESD Protection (Bi-direction)

ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

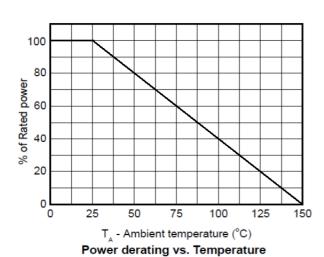
Part Number Ma	V _{RWM} Marking (V)	V _B (V)	lτ	V _C @1A (V)	V _c (V)		l _R (μΑ)	C _J (pF)	
	J	(Max.)		(mA)	(Max.)	(Max.)	(@A)	(Max.)	(Max.)
SGMD03C-C	C03	3.3	4	1	7.5	16	20	40	450
SGMD05C-C	C05	5	6	1	9.8	18	17	10	200
SGMD08C-C	C08	8	8.5	1	13.4	24	15	2	120
SGMD12C-C	C12	12	13.3	1	19	32	11	1	75
SGMD15C-C	C15	15	16.7	1	24	38	10	1	68
SGMD18C-C	C18	18	20	1	29	45	9	1	57
SGMD20C-C	C20	20	22.3	1	35	50	8	1	52
SGMD24C-C	C24	24	26.7	1	43	52	7	1	50
SGMD36C-C	C36	36	40	1	60	75	4.5	1	35

ELECTRICAL CHARACTERISTICS CURVE

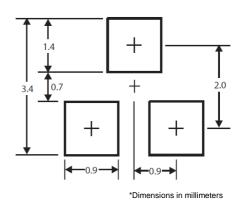




ESD pulse waveform according to IEC61000-4-2



8/20µs pulse waveform according to IEC 61000-4-5



Mounting Pad Layout

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