

SD03-C

350W, 3.3V ESD Protection (Uni-Directional)

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

DESCRIPTION

The SD03-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 device 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

- Peak Power Dissipation: 350W (8/20µs)
- Working Voltages: 3.3V
- Protects One I/O Line (Uni-Directional)
- Low Clamping Voltage
- Low Leakage Current

MARKING

03W

PACKAGE INFORMATION

Package	MPQ	Leader Size		
SOD-323	ЗK	7 inch		

ORDER INFORMATION

Part Number	Туре				
SD03-C	Lead (Pb)-free and Halogen-free				

ABSOLUTE MAXIMUM RATINGS (T_A=25°C unless otherwise specified)

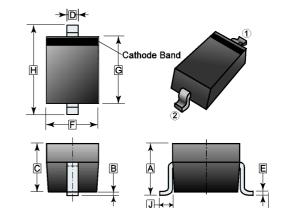
Parameter		Symbol	Ratings	Unit	
IEC 61000-4-2 ESD Voltage ¹	Air Model)/	±15	kV	
	Contact Model	Vesd	±8	ĸv	
Peak Pulse Power ² @tp=8/20µs		P _{PP}	350	W	
Lead Soldering Temperature @10 Second Duration		T∟	260	υ	
Junction and Storage Temperature Range		TJ, TSTG	150, -55~150	U	

ELECTRICAL CHARACTERISTICS (T_A=25[°]C unless otherwise specified)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Conditions
Reverse Stand-off Voltage	V _{RWM}	-	-	3.3	V	
Breakdown Voltage	V _(BR)	4	-	-	V	I⊤=1mA
Reverse Leakage Current	I _R	-	-	40	μA	V _{RWM} =3.3V
	N	-	-	6.5	V	IPP=1A
Clamping Voltage	Vc -	-	-	14		I _{PP} =20A
Junction Capacitance	CJ	-	450	-	pF	V _R =0V, f=1MHz

http://www.SeCoSGmbH.com/

SOD-323



REF.	Millimeter		REF.	Millimeter		
REF.	Min.	Max.	KEF.	Min.	Max.	
Α	1.05 REF. 0.07 REF.		F	1.10	1.50	
В			G	1.50	1.95	
С	0.80	1.10	Н	2.30	2.80	
D	0.25 0.40		J	0.475 REF.		
Е	0.05	0.25				

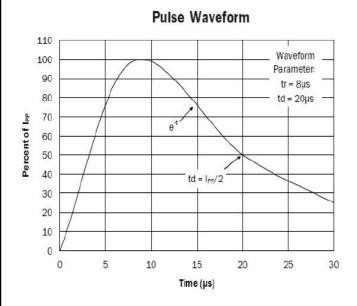


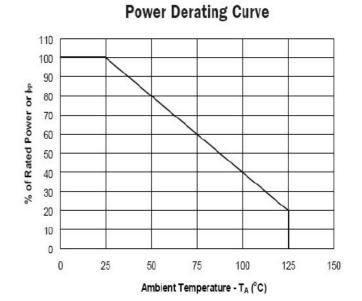


SD03-C

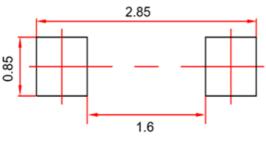
350W, 3.3V ESD Protection (Uni-Directional)

TYPICAL CHARACTERISTICS





Mounting Pad Layout



*Dimensions in millimeters

http://www.SeCoSGmbH.com/

Any changes of specification will not be informed individually.