

KS03VLK4-C

60W, 3.3V Ultra Low Capacitance ESD Protection Array

SOT-26

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

FEATURES

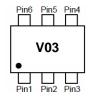
KS03VLK4-C is an ultra-low capacitance TVS designed to protection for high-speed data interfaces. With typical capacitance of 0.2pF (I/O to I/O) only, it is designed to protect parasitic-sensitive systems against over-voltage and over-current transient events. It complies with IEC 61000-4-2 (ESD) Level 4, IEC 61000-4-4 (EFT), very fast charged device model (CDM) ESD and cable discharge event (CDE) etc.

The combined features of ultra-low capacitance, small size and high ESD robustness make it ideal for high-speed data ports and high-frequency lines applications. The low clamping voltage of the KS03VLK4-C guarantees a minimum stress on the protected IC.

FEATURES

- Transient Protection for High-Speed Data Lines
- Package Optimized for High-Speed Lines
- Protects four Data Lines and One V_{CC} Line
- Low Capacitance and Clamping Voltage
- Low Leakage Current
- Flammability Rating: UL 94V-0

MARKING



I/O1 1 6 I/O2 GND 2 5 VCC I/O3 3 4 I/O4

PACKAGE INFORMATION

Package	MPQ	Leader Size	
SOT-26	3K	7 inch	

ORDER INFORMATION

Part Number	Туре	
KS03VLK4-C	Lead (Pb)-free and Halogen-free	

ABSOLUTE MAXIMUM RATINGS (T_A=25℃ unless otherwise specified)

Parameter		Symbol	Ratings	Unit	
IFC 64000 4 2 FSD Voltage	Air Model	- V _{ESD}	±25	KV	
IEC 61000-4-2 ESD Voltage	Contact Model		±20		
Peak Pulse Power @tp=8/20µs		P _{PP}	60	W	
Peak Pulse Current @tp=8/20µs		lpp	4	А	
Operating Junction Temperature Range		TJ	-55~125	8	
Storage Temperature Range		T _{STG}	-55~150	- ℃	

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Any changes of specification will not be informed individually

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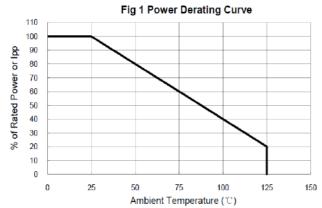
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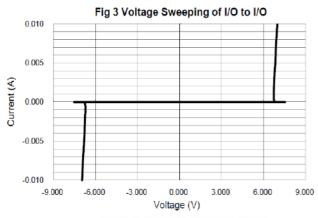
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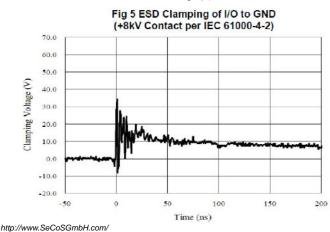
ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise specified)

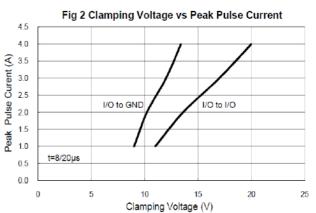
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Conditions
Reverse Working Voltage	V_{RWM}	-	-	3.3	V	I/O to GND
Reverse Breakdown Voltage	V_{BR}	4.2	-	9	V	I _T =1mA, I/O to GND
Reverse Leakage Current	I _R	-	-	1	μA	V _{RWM} =3.3V, I/O to GND
Surge Clamping Voltage @tp=8/20µs		-	-	10	V	I _{PP} =1A, I/O to GND
	Vc	-	-	14		IPP=4A, I/O to GND
		-	-	15		IPP=8A, Vcc to GND
Junction Capacitance @V _R =0V, f=1MHz		-	0.2	0.3		Between I/O Pins
	CJ	-	0.45	0.5		Between I/O and GND
		-	0.8	-		Between Vcc and GND

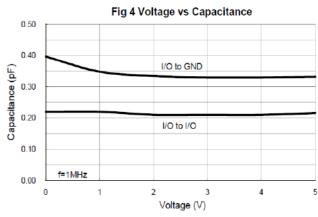
RATINGS AND CHARACTERISTICS CURVES

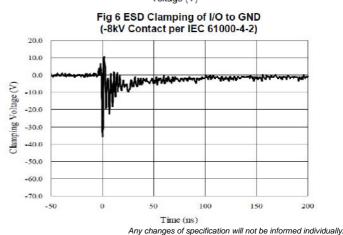












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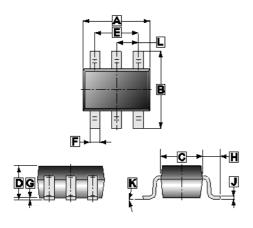


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PACKAGE OUTLINE DIMENSIONS

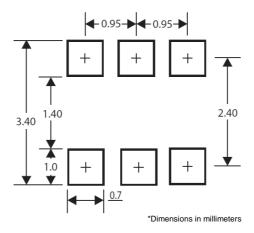
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REF.	Millimeter			
KEF.	Min.	Max.		
Α	2.70	3.10		
В	2.60	3.00		
С	1.40	1.80		
D	-	1.30		
Е	1.90 REF.			
F	0.25	0.50		
G	0	0.10		
Н	0.60 REF.			
J	0.12 REF.			
K	0°	10°		
L	0.95 REF.			

MOUNTING PAD LAYOUT

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