HIGH POWERED TVS COMPONENT



DESCRIPTION

The SKCxxxCS series are high current, bidirectional transient voltage suppressors that are designed for AC line protection and high-power DC bus clamping applications. These devices provide a clamping voltage lower than the avalanche voltage; any voltage rise due to increased current conduction is contained to a minimum, providing the best possible protection level. The SKCxxxCS series can be connected in series or in parallel to create very high capability protection solutions. These devices will also provide protection in accordance with IEC 61000-4-2, IEC 61000-4-4 and IEC 61000-4-5 requirements. The SKCxxxCS series is available in a SMTO-218(Tab) package configuration and is rated at 1600 Watts peak pulse power (8/20µs) per line.

FEATURES

- Compatible with IEC 61000-4-2 (ESD): Air ±30kV, Contact ±30kV
- Compatible with IEC 61000-4-4 (EFT): 40A, 5/50ns
- Compatible with IEC 61000-4-5 (Surge)
- 1600 kilowatts Peak Pulse Power per Line(tp = 8/20µs)
- High Current Capability
- Surface Mount Device
- Excellent Clamping Voltage
- Glass Passivated Junction
- Bidirectional Configuration
- Low Slope Resistance
- Repetition Rate (Duty Cycle): 0.01%
- Hazardous Substance Free
- RoHS Complaint (Exemption #7)

MECHANICAL CHARACTERISTICS

- SMTO-218 (Tab) Package
- Approximate Weight: 6.5grams
- High Temperature Soldering: 260°C / 10 seconds at Terminals
- Flammability Rating UL 94V-0
- Marking: Part Number, Date Code, Logo

CIRCUIT DIAGRAM



APPLICATIONS

- DC & AC Applications
- Remote Transmission Lines
- Industrial Wiring

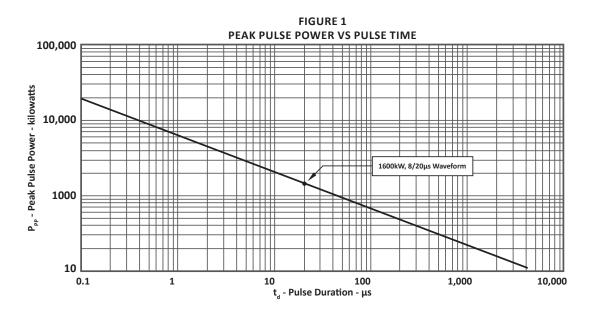
TYPICAL DEVICE CHARACTERISTICS

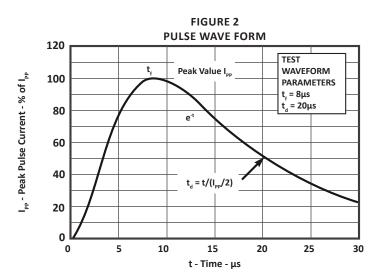
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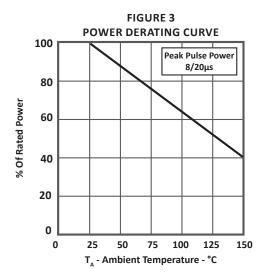
MAXIMUM RATINGS @ 25°C Unless Otherwise Specified							
PARAMETER SYMBOL VALUE UNITS							
Peak Pulse Power (tp = 8/20µs) - See Figure 1	P _{PP}	1600	kilowatts				
Operating Temperature	TL	-55 to 150	°C				
Storage Temperature	T _{stg}	-55 to 150	°C				
Current Rating I _{pp} @ 8/20µs	I _{pp}	10	kA				

ELECTRICAL CHARACTERISTICS PER LINE @ 25°C Unless Otherwise Specified								
PART NUMBER	REVERSE STAND-OFF VOLTAGE V WMM VOLTS	MINIMUM BREAKDOWN VOLTAGE V _(BR) @ I _T VOLTS	TEST CURRENT @ I _T mA	CURRENT RATING 8/20μs kA	MAXIMUM CLAMPING VOLTAGE @ I _{pp} V _C VOLTS	REVERSE LEAKAGE CURRENT @V _{oc} Ι _R μΑ		
SKC-058CS	58.0	64.0	10	10	110.0	5		
SKC-066CS	66.0	72.0	10	10	120.0	5		
SKC-076CS	76.0	83.0	10	10	140.0	5		
SKC-086CS	86.0	95.0	10	10	157.0	5		

TYPICAL DEVICE CHARACTERISTICS





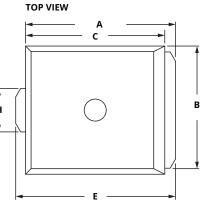


SKCxxxCS SERIES

PACKAGE INFORMATION

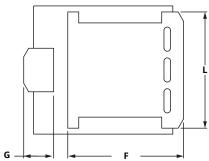
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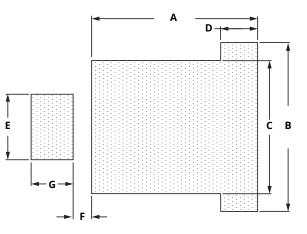
OUTLINE DIMENSIONS							
DIM	MILLIN	IETERS	INCHES				
DIN	MIN	MAX	MIN	MAX			
А	17.00	17.60	0.669	0.693			
В	14.50	15.10	0.571	0.594			
С	15.75	16.35	0.620	0.644			
D	6.85	7.20	0.270	0.283			
E	18.20	18.70	0.717	0.736			
F	13.10	13.60	0.516	0.535			
G	3.15	3.75	0.124	0.148			
н	4.85	5.15	0.191	0.203			
J	0.50	0.70	0.020	0.028			
L	13.20	13.60	0.520	0.535			



SIDE VIEW

BOTTOM VIEW





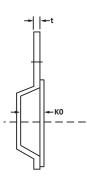
PAD LAYOUT DIMENSIONS						
DIM	MILLIMETERS	INCHES				
DIM	NOMINAL	NOMINAL				
А	13.46	0.530				
В	13.69	0.539				
С	10.80	0.425				
D	3.00	0.118				
E	5.31	0.209				
F	1.50	0.059				
G	3.40	0.134				

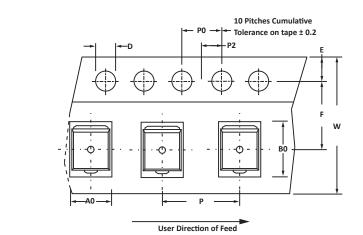
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TAPE AND REEL

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REEL DIA.	WIDTH	A0	B0	ко	D	E	F	W	P0	P2	Р
330mm (13.00")	36mm	15.1 ± 0.30	18.8 ± 0.30	16.5 ± 0.10	1.50 ± 0.10	1.75 ± 0.10	14.2 ± 0.2	36.0 ± 0.5	4.00 ± 0.10	2.0 ± 0.20	20.0 ± 0.20
NOTES	millimotors										

1. Dimensions are in millimeters.

2. Surface mount product is taped and reeled in accordance with EIA-481.

3. Marking on Part - marking code (see page 2) and pin one defined by dot on package.

BASE PART NUMBER (xx = Voltage) LEADFREE SUFFIX TAPE SUFFIX QTY/REEL REEL SIZE TUBE QTY					
SKCxxxCS	N/A	-T13	400	13"	n/a
This device is only available in a Lead-Free configuration.					

COMPANY INFORMATION

COMPANY PROFILE

In business more than 30 years, ProTek Devices[™] is a privately held semiconductor company. The company offers a product line of overvoltage protection and overcurrent protection components. These include transient voltage suppressor array (TVS arrays) avalanche breakdown diode, steering diode TVS array and electronics SMD chip fuses. These components deliver circuit protection in electronic systems from numerous overvoltage and overcurrent events. They include lightning; electrostatic discharge (ESD); nuclear electromagnetic pulses (NEMP); inductive switching; and electromagnetic interference (EMI) / radio frequency interference (RFI). ProTek Devices also offers LED wafer die for ESD protection and related high frequency products. ProTek Devices is an ISO 9001 certified company.

CONTACT US

Corporate Headquarters

2929 South Fair Lane Tempe, Arizona 85282 USA

By Telephone

General: 602-431-8101 Sales: & Marketing: 602-414-5109 Customer Service: 602-414-5114 Product Technical Support: 602-414-5107

By Fax

General: 602-431-2288

By E-mail:

Asia Sales: <u>asiasales@protekdevices.com</u> Europe Sales: <u>europesales@protekdevices.com</u> U.S. Sales: <u>ussales@protekdevices.com</u> Distributor Sales: <u>distysales@protekdevices.com</u> Customer Service: <u>service@protekdevices.com</u> Technical Support: <u>support@protekdevices.com</u>

ProTek Devices (Asia Pacific) Pte. Ltd.

8 Ubi Road 2, #06-19 Zervex Singapore - 408538 Tel: +65-67488312 Fax: +65-67488313

Web

www.protekdevices.com

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