



Integrated Complementary Buffered-Gate SCRS for Dual Polarity SLIC Overvoltage Protection



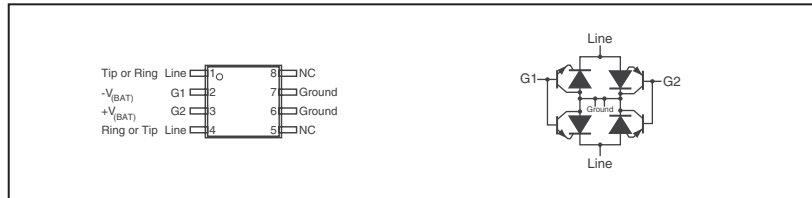
High Performance Protection for SLICs with +ve and -ve battery supplies

Features:

- Wide -110V to 110V Programming Range
- Low 5mA maximum Gate Triggering Current
- Dynamic Protection Performance Specified for International Surge Waveshapes
- 8-SOIC Package

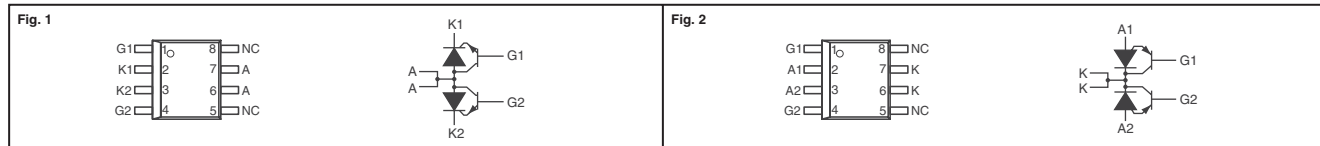
Applications Include:

- Wireless Local Loop
- Access Equipment
- Regenerated POTS
- VOIP Applications



Protection Voltage V _(BO) (V)	V _{DRM} V _{G1} V _{G2}	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T&R Pricing 2,000	Bourns Part No.
			1	10	100			
-110 ~ 110	-120 120	TISP9110LDMR-SCT-ND	2.44	1.65	1.28	TISP9110LDMR-STR-ND	1050.00/M	TISP9110LDMR-S

Complementary Buffered-Gate SCRS for Dual Polarity SLIC Overvoltage Protection

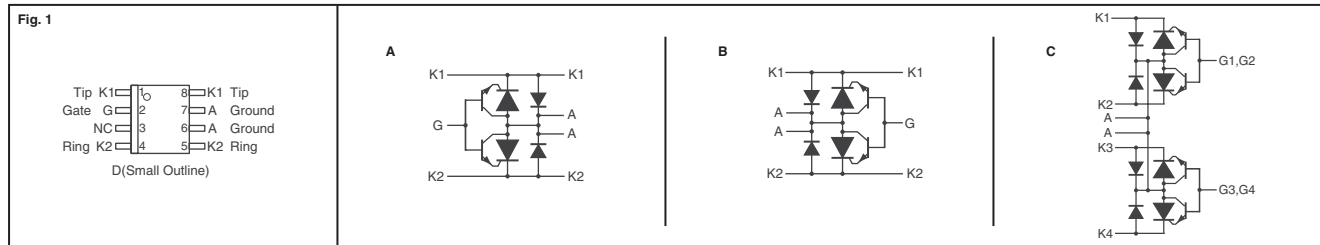


TISP8210MD BUFFERED P-GATE SCR DUAL: Negative Overvoltage Protector: • Wide 0 to -110V Programming Range • Low +5mA Maximum Gate Triggering Current • High -150mA Minimum Holding Current

TISP8211MD BUFFERED N-GATE SCR DUAL: Positive Overvoltage Protector: • Wide 0 to 110V Programming Range • Low -5mA Maximum Gate Triggering Current • +20mA Minimum Holding Current Package: 8-SOIC

Fig.	Protection Voltage V _(BO) (V)	V _{DRM}	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	T&R Pricing 2,500	Bourns Part No.
				1	10	100			
1	0 ~ -110	-120	TISP8210MDR-SCT-ND	1.37	.87	.65	TISP8210MDR-STR-ND	513.00/M	TISP8210MDR-S
2	0 ~ 110	120	TISP8211MDR-SCT-ND	1.37	.87	.65	TISP8211MDR-STR-ND	513.00/M	TISP8211MDR-S

Forward-Conducting P-Gate Thyristors Programmable Overvoltage Protectors



DUAL FORWARD-CONDUCTING P-GATE THYRISTORS, PROGRAMMABLE OVERVOLTAGE PROTECTORS:

- TISP61089 Gated Protector Series: Dual Voltage-Tracking Protectors: • '61089 for Battery Voltages to: -75V • '61089A for Battery Voltages to: -100V • Low Gate Triggering Current: <5mA • High Holding Current: >150mA
- TISP61089B High Voltage Ringing SLIC Protector: Dual Voltage-Programmable Protectors: • Supports Battery Voltages Down to: -155V • Low Gate Triggering Current: <5mA Maximum • High Holding Current: >150mA Minimum
- TISP61089HDM Overvoltage Protector: Dual Voltage-Programmable SLIC Protector: • Supports Battery Voltages Down to -155V • Low Gate Triggering Current: <15mA Maximum • High Holding Current: >150mA Minimum

QUAD FORWARD-CONDUCTING P-GATE THYRISTORS, PROGRAMMABLE OVERVOLTAGE PROTECTORS

- TISP6NTP2A Programmable Protector: Independent Overvoltage Protection for Two SLICs in Short Loop Applications: • Wide 0 ~ -90V Programming Range • Low 5mA Maximum Gate Triggering Current • High 150mA Minimum (85°C) Holding Current • Specified 1.2/50 and 0.5/700 Limiting Voltage • Full -40°C ~ 80°C Temperature Range
- TISP6NTP2C High Voltage Ringing SLIC Protector: Independent Tracking Overvoltage Protection for Two SLICs: • Dual Voltage-Programmable Protectors • Supports Battery Voltages Down to -155V • Low 5mA Maximum Gate Triggering Current • High 150mA Minimum (70°C) Holding Current • Specified 2/10 Limiting Voltage • Small Outline Surface Mount Package • Full 0°C ~ 70°C Temperature Range

Fig.	Protection Voltage V _(BO) (V)	V _{DRM}	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Bourns Part No.
				1	10	100		Qty.	Pricing	
1A	0 ~ -85	-100	TISP61089DR-SCT-ND	1.55	.97	.74	TISP61089DR-STR-ND	2,500	588.00/M	TISP61089DR-S
	0 ~ -120	-120	TISP61089ADR-SCT-ND	1.55	.97	.74	TISP61089ADR-STR-ND	2,500	588.00/M	TISP61089ADR-S
	0 ~ -155	-170	TISP61089HDMR-SCT-ND	3.45	2.30	1.88	TISP61089HDMR-STR-ND	2,000	1581.00/M	TISP61089HDMR-S
1B	0 ~ -170	-170	TISP61089BDR-SCT-ND	1.55	.97	.74	TISP61089BDR-STR-ND	2,500	588.00/M	TISP61089BDR-S
1C	0 ~ -90	-100	TISP6NTP2ADR-SCT-ND	2.04	1.32	1.04	TISP6NTP2ADR-STR-ND	2,500	840.00/M	TISP6NTP2ADR-S
	0 ~ -170	-170	TISP6NTP2CDR-SCT-ND	2.04	1.32	1.02	TISP6NTP2CDR-STR-ND	2,500	840.00/M	TISP6NTP2CDR-S

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

More Product Available Online: www.digikey.com

Toll-Free: 1-800-344-4539 • Phone 218-681-6674 • Fax: 218-681-3380

(T083) 1929