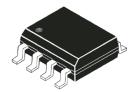


Features

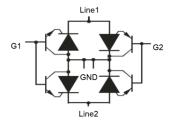
- High Performance Protection for SLICs
- Wide Programming Range(-110V to +110V)
- Low gate triggering current 5 mA max
- Surge capability does not degrade after multiple surge events within its ratings
- High Surge Current Capability
- RoHS Compliant
- MLS: Lever 1 unlimited

Applications

- Wireless In the Local Loop (WLL)
- Voice applications which require regenerated POTS
- VoIP applications
- PBX
- FXS application
- Digital Pair Gain systems(DPG)
- Digital Loop Carrier systems (DLC)
- Small Office Home Office (SOHO)



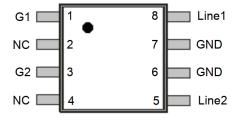
SOP-8L



Schematic Diagram

Pin Configuration

Pin#	Pin Name	Description	
5, 8	К	Connect to subscriber lines (Tip or Ring)	
1	G1	Connect to battery (-V _(BAT))	
3	G2	Connect to battery (+V _(BAT))	
6, 7	А	Connect ground	
2, 4	NC	Not connected	



Absolute Maximum Ratings (T_A=25°C)

Parameter	Symbol	Value	Unit
Repetitive peak off-state voltage			
$V_{G1(Line)} = 0, V_{G2} \ge +5 V$	V_{DRM}	-120	V
$V_{G2(Line)} = 0, V_{G1} \ge -5 V$		+120	
Non-repetitive peak impulse current (see Notes 1, 2, 3 and 4)			
2/10 μs (Telcordia GR-1089-CORE)	IPPSM	±150	А
5/310 μs (ITU-T K.20, K.21 & K.45, K.44 open-circuit voltage wave shape 10/700 μs)	IFFSIVI	±80	
10/1000 μs (Telcordia GR-1089-CORE)		±50	
Non repetitive peak on-state current, 50Hz / 60Hz (see Notes 1, 2, 3 and 5)			
0.2s	I _{TSM}	9.0	А
1s	1 3101	5.0	
900s		1.7	
Maximum negative battery supply voltage	V_{G1M}	-110	V
Maximum positive battery supply voltage	V_{G2M}	+110	V
Maximum differential battery supply voltage	$^{\triangle}V_{(BAT)M}$	220	V



Programmable Overvoltage Protector

Storage temperature range	T _{STG}	-55-150	°C
Junction temperature	ΤJ	-55-125	°C
Junction to ambient thermal resistance	Reja	55	°C /W

NOTES:

- 1. Initially the device must be in thermal equilibrium with TJ = 25 °C. The surge may be repeated after the device returns to its initial conditions.
- 2. The rated current values may be applied to either of the Line to Ground terminal pairs. Additionally, both terminal pairs may have their rated current values applied simultaneously (in this case the Ground terminal current will be twice the rated current value of a single terminal pair).
- 3. Rated currents only apply if pins 6 & 7 (Ground) are connected together.
- 4. Applies for the following bias conditions: VG1 = -20 V to -110 V, VG2 = 0 V to +110 V.
- 5. EIA/JESD51-2 environment and EIA/JESD51-7 high effective thermal conductivity test board (multi-layer) connected with 0.6 mm printed wiring track widths.
- 6. EIÄ/JESD51-2 Environment, PTOT = 4W ,EIA/JESD51-7 high effective thermal conductivity test board (multi-layer) connected with 0.6 mm printed wiring track widths.

Electrical Characteristics for any Section (T_A=25°C)

Symbol	Test Conditions	Min.	Тур.	Max.	Unit
I _D Off-state current	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			-5 -50 +5 +50	μΑ
I _{G1(Line)} Negative-gate Leakage current	$V_{G1(Line)} = -220V$			-5	μΑ
I _{G2(Line)} Positive-gate Leakage current	V _{G2(Line)} = +220V			+5	μΑ
V _{G1T} Gate-Cathode trigger voltage	V _D = -99 V, V _T = -3.5V			+2.5	V
V _{G2T} Gate-Cathode trigger voltage	V _D = 99 V, V _T = 3.5V			-2.5	V
I _H Negative holding current	$I_G = 99 \text{ mA}, I_T = -1A, V_T = -3.5V$	-50			mA
I _{G1T} Negative-gate trigger current	$V_D = -99 \text{ V}, V_T = -3.5 \text{ V}$			+5	mA
I _{G2T} Positive-gate trigger current	V _D = 99 V, V _T = 3.5V			-5	mA
Co Line-ground off-state capacitance	f=1MHz,V _D =-3V, G1 & G2 open circuit	·	32		pF

Typical Characteristic Curves

Fig.1 Off-state capacitance vs off-state voltage

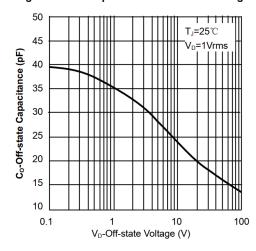
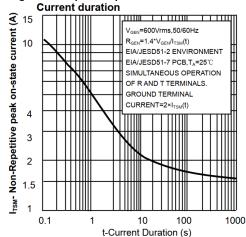
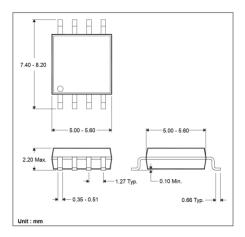


Fig.2 Non-Repetitive peak on-state current vs

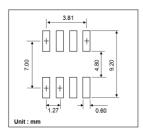




Product Dimension

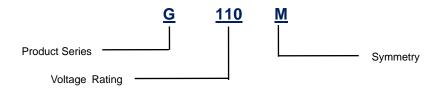


PAD Dimension



Marking and Order Information

Part Number System



Order Information

Device	Package	e Carrier Quantity		HSF Status
G110M	SOP-8L	Tape & Reel	2,000pcs/reel	RoHS compliant

Marking



Specifications are subject to change without notice.

© Copyright 2022, TimesVano

All rights reserved.