



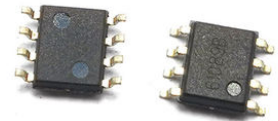
TSS VF 3V High Voltage Ringing SLIC Protector TISP61089B SOCAY SOP-8L Package

Our Product Introduction

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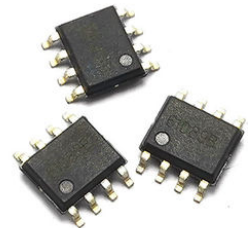
Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: REACH, RoHS, ISO
- Model Number: TISP61089B
- Minimum Order Quantity: 3000PCS
- Price: Negotiable
- Packaging Details: AMMO packing bulk
- Delivery Time: 5-8 work days

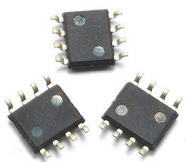


Product Specification

- Product Name: Thyristor Surge Suppressors (TSS)
- Package Type: SOP-8L
- VF: 3V
- VFRM: 10V
- C: 110pF
- Highlight: TSS SLIC Protector, 3V SLIC Protector, TISP61089B



More Images



Product Description

SOCAY SOP-8L Package High Voltage Ringing SLIC Protector TISP61089B Thyristor Surge Suppressors (TSS) VF 3V

DATASHEET: [TISP61089B_v2108.1.pdf](#)

Parameter	Symbol	Value	Unit
Non-repetitive peak on-state pulse current	I_{PPSM}	30	A
(Telcordia (Bellcore) GR-1089-CORE, Issue 3)			
5/310 μ s		40	
(ITU-T K.20, K.21 & K.45, K.44 open-circuit voltage wave shape 10/700 μ s)			
2/10 μ s		120	
(Telcordia (Bellcore) GR-1089-CORE, Issue 3)			
Non-repetitive peak on-state current (sinusoidal) 60Hz	I_{TSM}	6.5	A
0.1s			
1s		4.5	
5s		2.4	
30s		1.3	
900s		0.72	
Repetitive peak off-state voltage, $V_{GK}=0$	V_{DRM}	-170	V
Repetitive peak gate-cathode voltage, $V_{KA}=0$	V_{GKRM}	-167	V
Operating free-air temperature range	T_A	-40~+85	
Storage temperature range	T_{STG}	-40~+150	
Junction temperature	T_J	-40~+150	
Maximum lead temperature for soldering during 10s	T_L	260	
Junction to free air thermal resistance	R_{BJA}	120	/W

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F = 5A, t_W = 200\mu s$	--	--	3	V
Impulse peak forward recovery voltage	V_{FRM}	2/10 μ s, $I_F = 100A, R_S = 50\Omega$, $di/dt = 80A/\mu s$	--	--	10	V
Off-state Current	I_D	$V_D = -170V, V_{GK} = 0, T_J = 25$ $V_D = -170V, V_{GK} = 0, T_J = 85$	--	--	-5	μA
Impulse breakover voltage	$V_{(BO)}$	2/10 μ s, $I_{TM} = 100A, R_S = 50\Omega$, $di/dt = -80A/\mu s, V_{GG} = -100V$	--	--	-112	V
Holding current	I_H	$I_T = -1A, di/dt = 1A/ms, V_{GG} = -100V$	-150	--	--	mA
Gate reverse current	I_{GAS}	$V_{GG} = V_{GK} = -167V, V_{KA} = 0, T_J = 25$ $V_{GG} = V_{GK} = -167V, V_{KA} = 0, T_J = 85$	--	--	-5	μA
Gate trigger current	I_{GT}	$I_T = 3A, tp(g) \geq 20\mu s, V_{GG} = -100V$	--	--	5	mA
Gate trigger voltage	V_{GT}	$I_T = 3A, tp(g) \geq 20\mu s, V_{GG} = -100V$	--	--	2.5	V
Anode-cathode off-state capacitance	C_{KA}	$f = 1MHz, V_D = 1V, I_G = 0, V_D = -3V$ $f = 1MHz, V_D = 1V, I_G = 0, V_D = -48V$	--	--	110 55	pF

Description:

This device is especially designed to protect Subscriber Line Interface Circuit (SLIC) against transient overvoltage. Positive overloads are clipped with 2 diodes. Negative surges are suppressed by 2 Thyristors, their breakdown voltage being referenced to VBAT through the gate. This component presents a very low gate triggering current and minimizes overvoltage stress on the SLIC.

Features:

Dual line programmable transient voltage suppressor.
 Wide battery voltage supports.
 Low gate triggering current.
 High holding current.
 ESD Immunity(HBM): JESD22 Class 3B, $\geq 8\text{KV}$.
 MLS: Lever 1.

Applications:

Switch Line Card
 Access Network Line Card
 PBX
 VoIP

Device	Package	Shipping
TISP61089B	SOP-8L	3000 PCS/Reel&Tape

Package Outline Dimensions (Unit: mm)

	Symbol	Min.	Typ.	Max.
	A	1.35	1.55	1.70
	A1	0	0.10	0.15
	A2	1.25	1.40	1.65
	A3	0.50	0.60	0.70
	b	0.38	—	0.51
	b1	0.37	0.42	0.47
	c	0.17	—	0.25
	c1	0.17	0.20	0.23
	D	4.80	4.90	5.00
	E	5.80	6.00	6.20
	E1	3.80	3.90	4.00
	e	1.27BSC		
	L	0.45	0.60	0.80
	L1	1.04REF		
	L2	0.25BSC		
	R	0.07	—	—
	R1	0.07	—	—
	h	0.30	0.40	0.50
	θ	0°	—	8°
	θ1	15°	17°	19°
	θ2	11°	13°	15°
	θ3	15°	17°	19°
	θ4	11°	13°	15°

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