imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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MicroCapacitance (MC) SA SIDACtor® Device

RoHS

📶 Littelfuse

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These DO-214AA SAMC SIDACtor devices are intended for applications sensitive to load values. Typically, high speed connections, such as Ethernet, xDSL, and T1/E1, require a lower capacitance. Co values for the MicroCapacitance device are 40% lower than a standard SA part.

This SAMC SIDACtor series enables equipment to comply with various regulatory requirements including GR 1089, ITU K.20, K.21, and K.45, IEC 60950, UL 60950, and TIA-968-A (formerly known as FCC Part 68).

Electrical Parameters

Part Number *	V _{DRM} Volts	V _S Volts	V _T Volts	Ι _{DRM} μAmps	l _S mAmps	I _T Amps	I _H mAmps
P0080SAMCL	6	25	4	5	800	2.2	50
P0220SAMCL	15	32	4	5	800	2.2	50
P0300SAMCL	25	40	4	5	800	2.2	50

* "L" in part number indicates RoHS compliance. For non-RoHS compliant device, delete "L" from part number. For surge ratings, see table below.

General Notes:

All measurements are made at an ambient temperature of 25 °C. IPP applies to -40 °C through +85 °C temperature range.

• IPP is a repetitive surge rating and is guaranteed for the life of the product.

· Listed SIDACtor devices are bi-directional. All electrical parameters and surge ratings apply to forward and reverse polarities.

V_{DRM} is measured at I_{DRM}.

V_S is measured at 100 V/µs.

· Special voltage (V_S and V_{DRM}) and holding current (I_H) requirements are available upon request.

Surge Ratings in Amps

	Ipp										
series	0.2x310 * 0.5x700 **	2x10 * 2x10 **	8x20 * 1.2x50 **	10x160 * 10x160 **				10x1000 * 10x1000 **		I _{TSM} 50 / 60 Hz	di/dt
0,	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps	Amps/µs
А	20	150	150	90	50	75	75	45	75	20	500

* Current waveform in μs ** Voltage waveform in μs



Thermal Considerations

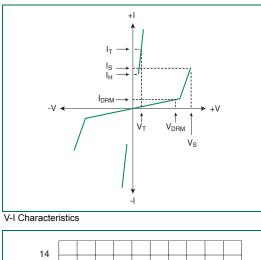
Package	Symbol	Parameter	Value	Unit
DO-214AA	TJ	Operating Junction Temperature Range	-40 to +150	°C
	TS	Storage Temperature Range	-65 to +150	°C
	R _{θJA}	Thermal Resistance: Junction to Ambient	90	°C/W

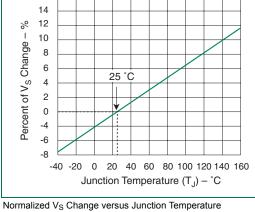
Capacitance Values

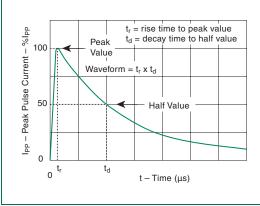
	pF		
Part Number	MIN	MAX	
P0080SAMCL	25	55	
P0220SAMCL	25	50	
P0300SAMCL	15	35	

SIDACtor Devices

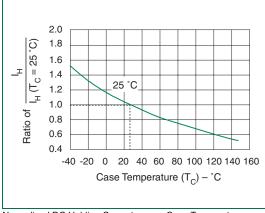
Note: Off-state capacitance (C_O) is measured at 1 MHz with a 2 V bias.













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