MicroCapacitance (MC) SA *SIDACtor* Device

The DO-214AA SA MC *SIDACtor* series is intended for applications sensitive to load values. Typically, high speed connections require a lower capacitance. C_O values for the MicroCapacitance device are 40% lower than a standard SA part.

This MC *SIDACtor* series is used to enable equipment to meet various regulatory requirements including GR 1089, ITU K.20, K.21, and K.45, IEC 60950, UL 60950, and TIA-968 (formerly known as FCC Part 68).

Electrical Parameters

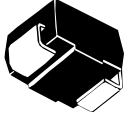| Part Number *	V_{DRM} Volts	V_S Volts	V_T Volts	I_{DRM} µAmps	I_S mAmps	I_T Amps	I_H mAmps	C_O pF
P0080SA MC	6	25	4	5	800	2.2	50	45
P0300SA MC	25	40	4	5	800	2.2	50	25

* For surge ratings, see table below.

General Notes:
• All measurements are made at an ambient temperature of 25 °C. I_{PP} applies to -40 °C through +85 °C temperature range.
• I_{PP} 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.
• Off-state capacitance (C_O) is measured at 1 MHz with a 2 V bias.

Surge Ratings

Series	I_{PP} 2x10 µs Amps	I_{PP} 8x20 µs Amps	I_{PP} 10x160 µs Amps	I_{PP} 10x560 µs Amps	I_{PP} 10x1000 µs Amps	I_{TSM} 60 Hz Amps	di/dt Amps/µs
A	150	150	90	50	45	20	500

Thermal Considerations

Package	Symbol	Parameter	Value	Unit
DO-214AA	T_J	Operating Junction Temperature Range	-40 to +150	°C
	T_S	Storage Temperature Range	-65 to +150	°C
	$R_{\theta JA}$	Thermal Resistance: Junction to Ambient	90	°C/W

V-I Characteristics

t_r x t_d Pulse Wave-form

Normalized V_S Change versus Junction Temperature

Normalized DC Holding Current versus Case Temperature

Data Sheets