

## MicroCapacitance (MC) SC SIDACtor Device



The DO-214AA SC 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 SC part.

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

### Electrical Parameters

Part Number *	$V_{DRM}$ Volts	$V_S$ Volts	$V_T$ Volts	$I_{DRM}$ $\mu$ Amps	$I_S$ mAmps	$I_T$ Amps	$I_H$ mAmps	$C_O$ pF
P0080SC MC	6	25	4	5	800	2.2	50	55
P0300SC MC	25	40	4	5	800	2.2	50	35
P0640SC MC	58	77	4	5	800	2.2	150	60
P0720SC MC	65	88	4	5	800	2.2	150	60
P0900SC MC	75	98	4	5	800	2.2	150	60
P1100SC MC	90	130	4	5	800	2.2	150	50
P1300SC MC	120	160	4	5	800	2.2	150	50
P1500SC MC	140	180	4	5	800	2.2	150	50
P1800SC MC	170	220	4	5	800	2.2	150	40
P2300SC MC	190	260	4	5	800	2.2	150	40
P2600SC MC	220	300	4	5	800	2.2	150	40
P3100SC MC	275	350	4	5	800	2.2	150	40
P3500SC MC	320	400	4	5	800	2.2	150	40

\* For surge ratings, see table below.

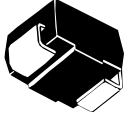
### General Notes:

- 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/ $\mu$ s.
- 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 $\mu$ s Amps	$I_{PP}$ 8x20 $\mu$ s Amps	$I_{PP}$ 10x160 $\mu$ s Amps	$I_{PP}$ 10x560 $\mu$ s Amps	$I_{PP}$ 10x1000 $\mu$ s Amps	$I_{TSM}$ 60 Hz Amps	di/dt Amps/ $\mu$ s
C	500	400	200	150	100	30	500

Thermal Considerations

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



V-I Characteristics



$t_r \times t_d$  Pulse Wave-form



Normalized  $V_S$  Change versus Junction Temperature



Normalized DC Holding Current versus Case Temperature

Data Sheets

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