





**Solid State Devices, Inc.**

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**SSR5010CTS1**

**ELECTRICAL CHARACTERISTICS (Per Leg)**

CHARACTERISTICS	SYMBOL	TYPICAL	MAXIMUM	UNIT
<b>Instantaneous Forward Voltage Drop</b> ( $I_F = 10 \text{ Adc}$ , $T_A = 25^\circ\text{C}$ , Pulse) ( $I_F = 25 \text{ Adc}$ , $T_A = 25^\circ\text{C}$ , Pulse)	$V_{F1}$	0.60	0.75	Vdc
	$V_{F2}$	0.70	0.85	
<b>Instantaneous Forward Voltage Drop</b> ( $I_F = 10 \text{ Adc}$ , $T_A = -55^\circ\text{C}$ , Pulse) ( $I_F = 25 \text{ Adc}$ , $T_A = -55^\circ\text{C}$ , Pulse)	$V_{F3}$	0.62	-	Vdc
	$V_{F4}$	0.78	0.90	
<b>Instantaneous Forward Voltage Drop</b> ( $I_F = 10 \text{ Adc}$ , $T_A = 125^\circ\text{C}$ , Pulse) ( $I_F = 25 \text{ Adc}$ , $T_A = 125^\circ\text{C}$ , Pulse)	$V_{F5}$	0.48	-	Vdc
	$V_{F6}$	0.58	0.65	
<b>Reverse Leakage Current</b> (Rated $V_R$ , $T_A = 25^\circ\text{C}$ , Pulse)	$I_{R1}$	10	100	$\mu\text{A}$
<b>Reverse Leakage Current</b> (Rated $V_R$ , $T_A = 100^\circ\text{C}$ , Pulse)	$I_{R2}$	2	-	mA
<b>Reverse Leakage Current</b> (Rated $V_R$ , $T_A = 125^\circ\text{C}$ , Pulse)	$I_{R3}$	10	20	mA
<b>Junction Capacitance</b> ( $V_R = 5 \text{ Vdc}$ , $T_A = 25^\circ\text{C}$ , $f = 1 \text{ MHz}$ )	$C_J$	900	1200	pF

