



Solid State Devices, Inc.

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**SPD3909
 Thru
 SPD3913**

Electrical Characteristics (per leg) ^{4/}		Symbol	Max	Units
Maximum Instantaneous Forward Voltage Drop (Pulsed)	$I_F = 30A, T_A = 25\text{ }^\circ\text{C}$	V_{F1}	1.40	V_{DC}
	$I_F = 30A, T_A = -55\text{ }^\circ\text{C}$	V_{F2}	1.50	
Maximum Reverse Leakage Current (Rated V_R Minimum)	$T_A = 25\text{ }^\circ\text{C}$	I_{R1}	80	μA
	$T_A = 100\text{ }^\circ\text{C}$	I_{R2}	10	mA
Maximum Reverse Recovery Time ($I_F = 500\text{ mA}, I_R = 1\text{ Amp}, I_{RR} = 250\text{ mA}$)		t_{RR}	200	nsec
Typical Junction Capacitance ($V_R = 10V_{DC}, T_A = 25^\circ\text{C}, f = 1\text{MHz}$)		C_J	200	pF

Notes:

- 1/ For ordering information, Price, Operating Curves, and Availability- Contact Factory.
- 2/ Screened to MIL-PRF-19500.
- 3/ Recovery Conditions: $I_F = 500\text{ mA}, I_R = 1\text{ Amp}, I_{RR} = 250\text{ mA}$.
- 4/ Unless Specified Otherwise, All Maximum Ratings/Electrical Characteristics are @25°C.

Code	Configuration	Terminal	Stud
—	Normal	Anode	Cathode
R	Reverse	Cathode	Anode

