



Solid State Devices, Inc.

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**SHF1304 thru SHF1308
 SHF1304SMS thru SHF1308SMS**

Electrical Characteristics	Part Type	Symbol	Max	Units
Instantaneous Forward Voltage Drop ($T_A = 25^\circ\text{C}$, pulsed) $I_F = 3\text{A}$	SHF1304 - 1306 SHF1308	V_{F1}	1.35 1.45	Volts
Instantaneous Forward Voltage Drop ($T_A = -55^\circ\text{C}$, pulsed) $I_F = 3\text{A}$	SHF1304 - 1306 SHF1308	V_{F2}	1.5 1.6	Volts
Reverse Leakage Current (Rated V_R , $T_A = 25^\circ\text{C}$, pulsed)	All	I_{R1}	10	μA
Reverse Leakage Current (Rated V_R , pulsed)	SHF1304 - 1306 @ 125°C SHF1308 @ 100°C	I_{R2}	200 200	μA
Junction Capacitance ($V_R = 10\text{Vdc}$, $T_A = 25^\circ\text{C}$, $f = 1\text{MHz}$)	All	C_J	50	pF
Reverse Recovery Time ($I_F = 500\text{mA}$, $I_R = 1\text{A}$, $I_{RR} = 0.25\text{A}$)	SHF1304 - 1306 SHF1308	t_{rr}	$40 \frac{\mu\text{s}}{\text{V}}$ 50	nsec

Notes: $\frac{\mu\text{s}}{\text{V}}$ trr on SHF1304 - 1306, 100 ns typical @ 100°C

Case Outline: (Axial)

DIMENSIONS SHF1304 & SHF1306		
DIM	MIN	MAX
A	0.140"	0.170"
B	—	0.200"
C	0.047"	0.053"
D	1.00"	—

DIMENSIONS SHF1308		
DIM	MIN	MAX
A	0.140"	0.170"
B	—	0.215"
C	0.045"	0.053"
D	1.00"	—

Case Outline: Surface Mount (SMS)

DIMENSIONS SHF1304 & SHF1306		
DIM	MIN	MAX
A	0.172"	0.180"
B	0.200"	0.250"
C	0.020"	0.035"
D	0.002"	—

DIMENSIONS SHF1308		
DIM	MIN	MAX
A	0.172"	0.180"
B	0.200"	0.265"
C	0.020"	0.035"
D	0.002"	—