



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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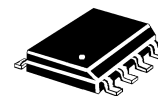
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**S8-4148, e3
 and
 S8-4150, e3
 Switching Diode Array**



FEATURES

- 4 Diode Array
- SOIC 8 pin Surface Mount Package
- UL 94V-0 Flammability Classification
- RoHS compliant by adding "e3" suffix (S8-4148e3 or S8-4150e3)

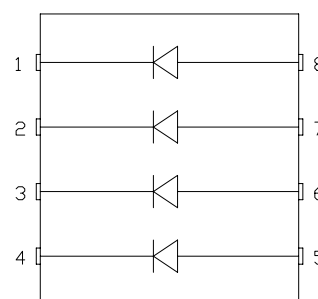
MECHANICAL and PACKAGING

- Molded SOIC 8 Pin
- Terminals: Tin-Lead or RoHS compliant annealed matte Tin
- Weight: 0.066 grams (approximate)
- Marking: Logo, device part number, date code
- Pin #1 defined by DOT on top of package
- Tape & Reel option: Standard per EIA-481-B
 13 inch reel 5000 pieces (add "TR" suffix to part number)
- Carrier tube option: 95 pcs per tube

MAXIMUM RATINGS

- Operating Temperatures: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Forward Surge Current: 2.0 Amps (8.3 ms)
- Working Peak Reverse voltage V_{RWM} : 75 V for S8-4148 and 50 V for S8-4150
- Continuous forward current I_F : 400 mA (each diode)
- Power dissipation (P_D): 1000 mW (total package)

CIRCUIT DIAGRAM



ELECTRICAL CHARACTERISTICS @ 25°C Unless otherwise specified

Part Number	$V_{BR} @ I_{BR}$ =100µA		I_R +25°C		I_R 150°C		CAP @ 0V pF		t_{rr}	
	V MIN		µA MAX	@ V_R	µA MAX	@ V_R	MAX pF		MAX (ns)	
S8-4148	90		.025 .500	20 75	50 100	20 50	4.0		5.0	
S8-4150	75		.1	50	100	50	2.5		4.0	
Part Number	V_F @ $I_F = 1.0mA$		V_F @ $I_F = 10mA$		V_F @ $I_F = 50mA$		V_F @ $I_F = 100mA$		V_F @ $I_F = 200mA$	
	V MIN	V MAX	V MIN	V MAX	V MIN	V MAX	V MIN	V MAX	V MIN	V MAX
S8-4148	-----	-----	-----	100	-----	-----	-----	1.20	-----	-----
S8-4150	0.54	0.62	0.66	0.74	0.76	0.86	0.82	0.92	0.87	1.00

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.188	0.197	4.77	5.00
B	0.150	0.158	3.81	4.01
C	0.053	0.069	1.35	1.75
D	0.011	0.021	0.28	0.53
F	0.016	0.050	0.41	1.27
G	0.050 BSC		1.27 BSC	
J	0.006	0.010	0.15	0.25
K	0.004	0.008	0.10	0.20
L	0.189	0.206	4.80	5.23
P	0.228	0.244	5.79	6.19