



8700 E. Thomas Road
Scottsdale, AZ 85251
Tel: (480) 941-6300
Fax (480) 947-1503

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

FEATURES

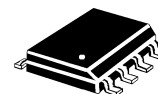
- 4 Diode Array
- SOIC 8 pin Surface Mount Package
- UL 94V-0 Flammability Classification
- RoHS compliant by adding "e3" suffix (S8-4148e3 or S8-4150e3)

MECHANICAL and PACKAGING

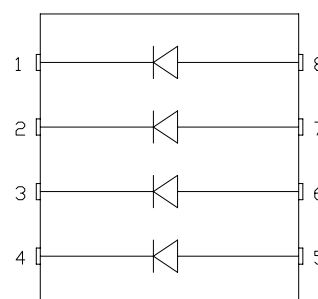
- Molded SOIC 8 Pin
- Terminals: Tin-Lead or RoHS compliant annealed matte Tin
- Weight: 0.066 grams (approximate)
- Marking: Logo, device part number, date code
- Pin #1 defined by DOT on top of package
- Tape & Reel option: Standard per EIA-481-B
- 13 inch reel 5000 pieces (add "TR" suffix to part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

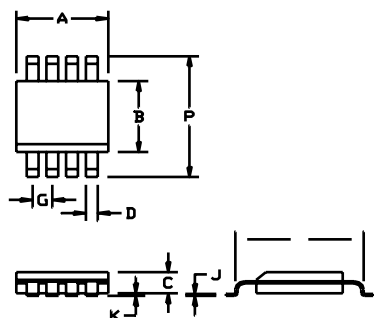


CIRCUIT DIAGRAM



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