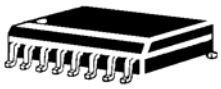
8700 E. Thomas Road
Scottsdale, AZ 85251
Tel: (480) 941-6300
Fax (480) 947-1503

S16-4148, e3
and
S16-4150, e3
Switching Diode Array

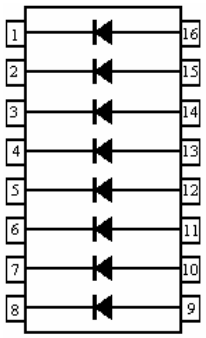


FEATURES
- 8 Diode Array
- SOIC 16 pin Surface Mount Package
- UL 94V-0 Flammability Classification
- RoHS compliant by adding “e3” suffix (S16-4148e3 or S16-4150e3)

MECHANICAL and PACKAGING
- Molded SOIC 16 Pin
- Terminals: Tin-Lead or RoHS compliant annealed matte Tin
- Weight: 0.128 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 2,500 pieces (add “TR” suffix to part number)
- Carrier tube 48 pcs per (STANDARD)

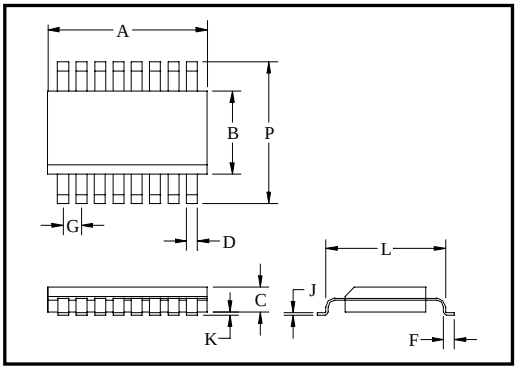
MAXIMUM RATINGS
- Operating Temperatures: -55^{0}C to +150^{0}C
- Storage Temperature: -55^{0}C to +150^{0}C
- Forward Surge Current: 2.0 Amps (8.3 ms)
- Working Peak Reverse Voltage V_{RWM}: 75 V for S16-4148 and 50 V for S16-4150
- Continuous forward current I_F: 400 mA (each diode)
- Power dissipation (P_D): 1500 mW (total package)

CIRCUIT DIAGRAM



ELECTRICAL CHARACTERISTICS @ 25^{0}C Unless otherwise specified

Part Number	V_{BR} @ I_{BR} =100µA		I_R +25ºC		I_R 150ºC		CAP @ 0V pF		t_{rr}	
	V MIN		µA MAX	V@Vr	µA MAX	@V_R	MAX pF		MAX (nS)	
S16-4148	90		.025 .500	20 75	50 100	20 50	4.0		5.0	
S16-4150	75		.1	50	100	50	2.5		4.0	
Part Number	V_F @ I_F = 1.0 mA		V_F @ I_F = 10 mA		V_F @ I_F = 50 mA		V_F @ I_F = 100 mA		V_F @ I_F = 200 mA	
	V MIN	V MAX	V MIN	V MAX	V MIN	V MAX	V MIN	V MAX	V MIN	V MAX
S16-4148	------	------	------	100	------	------	------	1.20	------	------
S16-4150	0.54	0.62	0.66	0.74	0.76	0.86	0.82	0.92	0.87	1.00



	INCHES		MILLIMETERS	
DIM	MIN	MAX	MIN	MAX
A	0.385	0.398	9.09	10.10
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	0.010	0.10	0.20
L	0.189	0.206	4.80	5.23
P	0.228	0.244	5.79	6.19