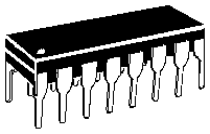
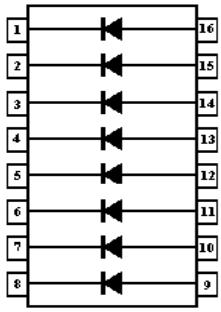
Microsemi

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

D16-4148
and
D16-4150
Switching Diode Array



CIRCUIT DIAGRAM



FEATURES
- 8 Diode Array
- Standard 16 pin Dual-In-Line Package
- UL 94V-0 Flammability Classification

MECHANICAL
- Molded 16 Pin Dip
- Weight: 1.026 grams (approximate)
- Marking: Logo, device number, date code
- Pin #1 defined by DOT on top of package

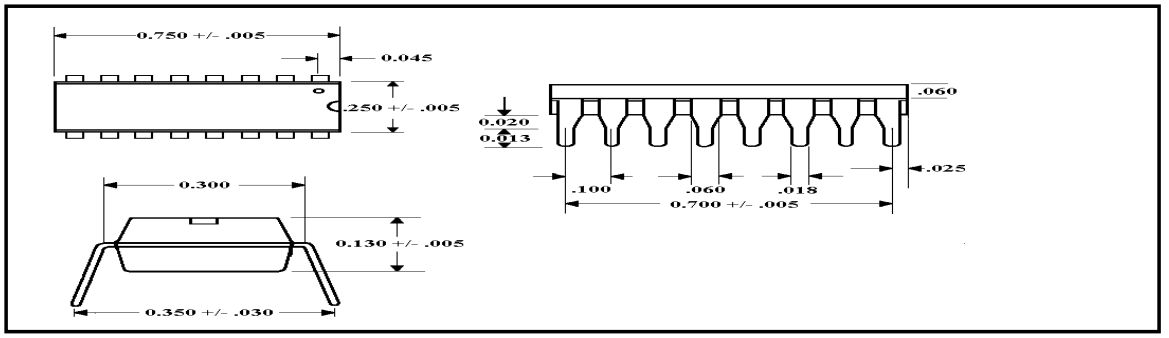
MAXIMUM RATINGS
- Operating Temperatures: -55^{0}C to +150^{0}C
- Storage Temperature: -55^{0}C to +150^{0}C
- Forward Surge Current: 2.0Amps (8.3 mS)
- Peak Reverse voltage V_{RM}: D16-4148/100V, D16-4150/75V
- Steady state reverse voltage V_R: D16-4148/75V, D16-4150/50V
- Continuous forward current I_F: 400mA
- Power dissipation (P_D): 500mW
- Derating factor: 4.0 mW/°C

PACKAGING
- Carrier tube 25 pcs per (STANDARD)

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

Part Number	V_{BR} @ I_{BR} = 100µA		Ir +25ºC		Ir +50ºC	CAP @ 0 Volts	trr
	VOLTS MIN	µA MAX	VOLTS @Vr	µA MAX	VOLTS @Vr	pF MAX	(nS) MAX
D16-4148	100	.025 .100	20 50	50 100	20 50	4.0	5.0
D16-4150	75	.100	50	100	75	2.5	4.0

Part Number	Vf @If = 1 mA		Vf @If = 10 mA		Vf @If = 50 mA		Vf @If = 100 mA		Vf @If = 200 mA	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
D16-4148	--	--	--	1.00	--	--	--	1.20	--	--
D16-4150	0.54	0.62	0.68	0.74	0.76	0.86	0.82	0.92	0.87	1.00



ISO 9001 CERTIFIED