


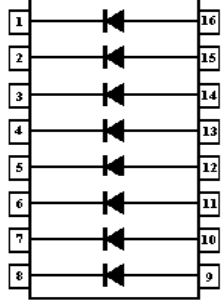


8700 E. Thomas Road  
 Scottsdale, AZ 85251  
 Tel: (480) 941-6300  
 Fax (480) 947-1503

**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°C to +150°C
- Storage Temperature: -55°C to +150°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°C Unless otherwise specified**

Part Number	$V_{BR} @ I_{BR} = 100\mu A$		$I_r +25^\circ C$		$I_r +50^\circ C$	CAP @ 0 Volts	trr
	VOLTS MIN	$\mu A$ MAX	VOLTS @Vr	$\mu A$ 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	$V_f @ I_f = 1 \text{ mA}$		$V_f @ I_f = 10 \text{ mA}$		$V_f @ I_f = 50 \text{ mA}$		$V_f @ I_f = 100 \text{ mA}$		$V_f @ I_f = 200 \text{ mA}$	
	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

