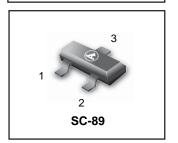


Common Cathode Silicon Dual Switching Diode

This Common Cathode Silicon Epitaxial Planar Dual Diode is designed for use in ultra high speed switching applications. This device is housed in the SC–89 package which is designed for low power surface mount applications, where board space is at a premium.

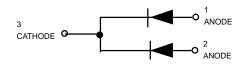
- Fast trr
- Low CD
- Available in 8 mm Tape and Reel

LDAN222T1



MAXIMUM RATINGS $(T_A = 25^{\circ}C)$

Rating	Symbol	Value	Unit
Reverse Voltage	٧R	80	Vdc
Peak Reverse Voltage	V _{RM}	80	Vdc
Forward Current	lF	100	mAdc
Peak Forward Current	I _{FM}	300	mAdc
Peak Forward Surge Current	I _{FSM} (1)	2.0	Adc



THERMAL CHARACTERISTICS

Rating	Symbol	Max	Unit
Power Dissipation	PD	150	mW
Junction Temperature	TJ	150	°C
Storage Temperature Range	T _{stg}	-55 to +150	°C

^{1.} $t = 1 \mu S$

ELECTRICAL CHARACTERISTICS (T_A = 25°C)

Characteristic	Symbol	Condition	Min	Max	Unit
Reverse Voltage Leakage Current	IR	V _R = 70 V	_	0.1	μAdc
Forward Voltage	٧F	I _F = 100 mA	_	1.2	Vdc
Reverse Breakdown Voltage	٧R	I _R = 100 μA	80	_	Vdc
Diode Capacitance	CD	V _R = 6.0 V, f = 1.0 MHz	_	3.5	pF
Reverse Recovery Time	t _{rr} (2)	$I_F = 5.0 \text{ mA}, V_R = 6.0 \text{ V}, R_L = 100 \Omega, I_{rr} = 0.1 I_R$	_	4.0	ns

^{2.} t_{rr} Test Circuit on following page.

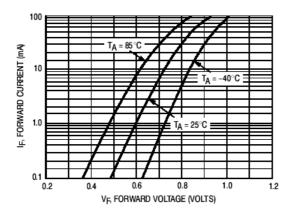
Driver Marking

LDAN222T1=N9



LDAN222T1

Electrical characteristic curves



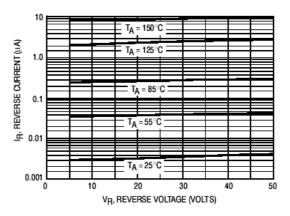


Figure 1. Forward Voltage

Figure 2. Reverse Current

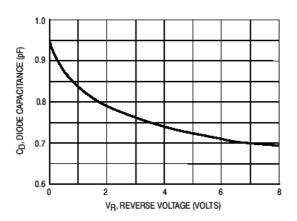
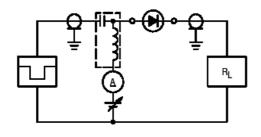
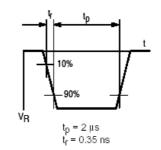
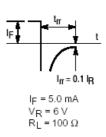


Figure 3. Diode Capacitance







RECOVERY TIME EQUIVALENT TEST CIRCUIT

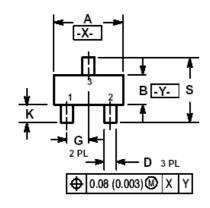
INPUT PULSE

OUTPUT PULSE



LDAN222T1

SC-89

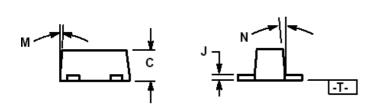


NOTES:

1.DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.

2.CONTROLLING DIMENSION: MILLIMETERS
3.MAXIMUM LEAD THICKNESS INCLUDES LEAD
FINISH THICKNESS. MINIMUM LEAD THICKNESS
IS THE MINIMUM THICKNESS OF BASE
MATERIAL.

4.463C-01 OBSOLETE, NEW STANDARD 463C-02.



	MILLIMETERS			INCHES			
DIM	MIN	NOM	MAX	MIN	NOM	MAX	
Α	1.50	1.60	1.70	0.059	0.063	0.067	
В	0.75	0.85	0.95	0.030	0.034	0.040	
С	0.60	0.70	0.80	0.024	0.028	0.031	
D	0.23	0.28	0.33	0.009	0.011	0.013	
G	0.50 BSC			0.020 BSC			
Н	0.53 REF			0	0.021 REF		
J	0.10	0.15	0.20	0.004	0.006	0.008	
K	0.30	0.40	0.50	0.012	0.016	0.020	
L	1.10 REF			0	0.043 REF		
M			10 °	-		10°	
N			10 °			10°	
S	1.50	1.60	1.70	0.059	0.063	0.067	

