MSD6150

Dual Diode Common Anode



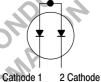
ON Semiconductor®

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MAXIMUM RATINGS (EACH DIODE)

Rating	Symbol	Value	Unit	
Reverse Voltage	V _R	70	Vdc	
Peak Forward Recurrent Current	ΙF	200	mAdc	
Peak Forward Surge Current (Pulse Width = 10 μsec)	I _{FM(surge)}	500	mAdc	
Total Device Dissipation @ T _A = 25°C Derate above 25°C	P _D ⁽¹⁾	625 5.0	mW mW/°C	
Operating and Storage Junction Temperature Range	T _J , T _{stg} ⁽¹⁾	-55 to +135	°C	





ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted) (EACH DIODE)

Cl	haracteristic	Symbol	Min	Тур	Max	Unit
Breakdown Voltage (I _(BR) = 100 μAdc)	110 OU	V _(BR)	70			Vdc
Reverse Current (V _R = 50 Vdc)	COLY AND	I _R	_	_	0.1	μAdc
Forward Voltage (I _F = 10 mAdc)	THI TATA	V _F	_	0.80	1.0	Vdc
Capacitance (V _R = 0)	COLCELL	С	_	5.0	8.0	pF
Reverse Recovery Time $(I_F = I_R = 10 \text{ mAdc}, V_R = 5.0 \text{ N})$	/dc, i _{rr} = 1.0 mAdc)	t _{rr}	_	_	100	ns

^{1.} Continuous package improvements have enhanced these guaranteed Maximum Ratings as follows: P_D = 1.0 W @ T_C = 25°C, Derate above 8.0 mW/°C, P_D = 10 W @ P_C = 25°C, Derate above 80 mW/°C, P_D = 150°C, P_D = 12.5°C/W, P_D = 125°C.

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TYPICAL CHARACTERISTICS

Curves Applicable to Each Cathode

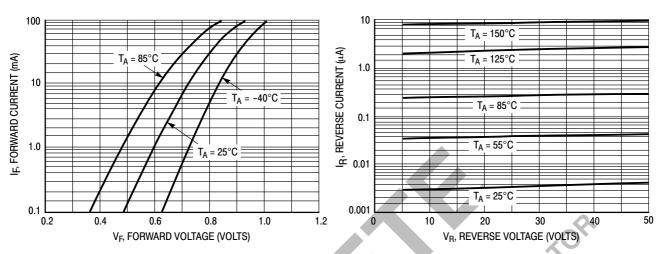
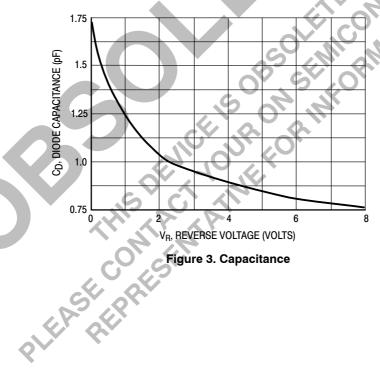


Figure 1. Forward Voltage

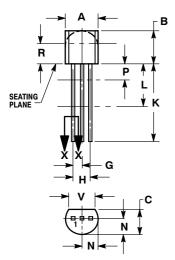
Figure 2. Leakage Current



MSD6150

PACKAGE DIMENSIONS

TO-92 (TO-226AA) **CASE 29-11** ISSUF AL





NOTES

- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
- CONTROLLING DIMENSION: INCH.
 CONTOUR OF PACKAGE BEYOND DIMENSION R IS UNCONTROLLED.
- 4. LEAD DIMENSION IS UNCONTROLLED IN P AND BEYOND DIMENSION K MINIMUM.

	INC	INCHES MILLIM		
DIM	MIN	MAX	MIN	MAX
Α	0.175	0.205	4.45	5.20
В	0.170	0.210	4.32	5.33
C	0.125	0.165	3.18	4.19
D	0.016	0.021	0.407	0.533
G	0.045	0.055	1.15	1.39
Н	0.095	0.105	2.42	2.66
J	0.015	0.020	0.39	0.50
K	0.500		12.70	/ ←
L	0.250		6.35)
N	0.080	0.105	2.04	2.66
Р		0.100	- 3	2.54
R	0.115	4-	2.93	
٧	0.135		3.43	

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