

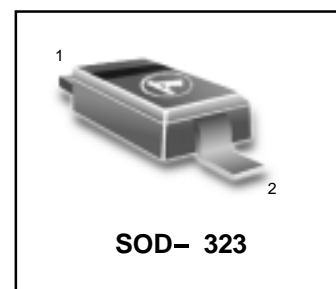
# High –Speed Switching Diode

## LMDL914T1

- Pb-Free Package is available.

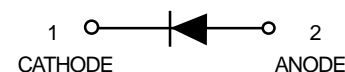
### ORDERING INFORMATION

Device	Package	Shipping
LMDL914T1	SOD-323	3000/Tape&Reel
LMDL914T1G (Pb-Free)	SOD-323	3000/Tape&Reel



### MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Reverse Voltage	$V_R$	100	Vdc
Forward Current	$I_F$	200	mAdc
Peak Forward Surge Current	$I_{FM(surge)}$	500	mAdc



### THERMAL CHARACTERISTICS

Characteristic	Symbol	Max	Unit
Total Device Dissipation FR-5 Board,* $T_A = 25^\circ\text{C}$	$P_D$	200	mW
Derate above $25^\circ\text{C}$		1.57	mW/ $^\circ\text{C}$
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	635	$^\circ\text{C/W}$
Junction and Storage Temperature	$T_J, T_{stg}$	150	$^\circ\text{C}$

\*\*FR-4 Minimum Pad

### DEVICE MARKING

LMDL914T1 = 5D

### ELECTRICAL CHARACTERISTICS ( $T_A = 25^\circ\text{C}$ unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
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### OFF CHARACTERISTICS

Reverse Breakdown Voltage ( $I_R = 100 \mu\text{Adc}$ )	$V_{(BR)}$	100	—	Vdc
Reverse Voltage Leakage Current ( $V_R = 20\text{Vdc}$ ) ( $V_R = 75\text{Vdc}$ )	$I_R$	—	25 5.0	nAdc $\mu\text{Adc}$
Diode Voltage ( $V_R = 0, f = 1.0\text{MHz}$ )	$C_T$	—	4.0	pF
Forward Voltage ( $I_F = 10 \text{mAdc}$ )	$V_F$	—	1.0	Vdc
Reverse Recovery Time ( $I_F = I_R = 10 \text{mAdc}$ ) (Figure 1)	$t_{rr}$	—	4.0	ns