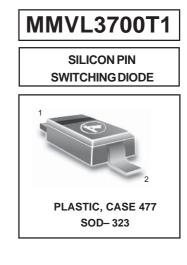


High Voltage Silicon Pin Diode

These devices are designed primarily for VHF band switching applications but are also suitable for use in general–purpose switching circuits. They are supplied in a cost–effective plastic surface mount package for economical, high–volume consumer and industrial requirements.

- Long Reverse Recovery Time trr = 300 ns (Typ)
- Rugged PIN Structure Coupled with Wirebond Construction for Optimum Reliability
- Low Series Resistance @ 100 MHz -
- $R_s = 0.7 \ \Omega (Typ) @ I_F = 10 mAdc$
- Reverse Breakdown Voltage = 200 V (Min)
- Device Marking: 4R





ORDERING INFORMATION			
Device	Package	Shipping	
MMVL3700T1	SOD-323	3000 / Tape & Reel	

MAXIMUM RATINGS

Symbol	Rating	Value	Unit	
V _R	Continuous Reverse Voltage	200	Vdc	
I _F	Peak Forward Current	20	mAdc	

THERMALCHARACTERISTICS

Symbol Characteristic		Max	Unit	
PD	Total Device Dissipation FR-5 Board,*	200	0 mW	
	$T_A = 25^{\circ}C$			
	Derate above 25°C	1.57	mW/°C	
R _{®JA}	Thermal Resistance Junction to Ambient	635	°C/W	
T _J , T _{stg}	Junction and Storage Temperature	150	°C	

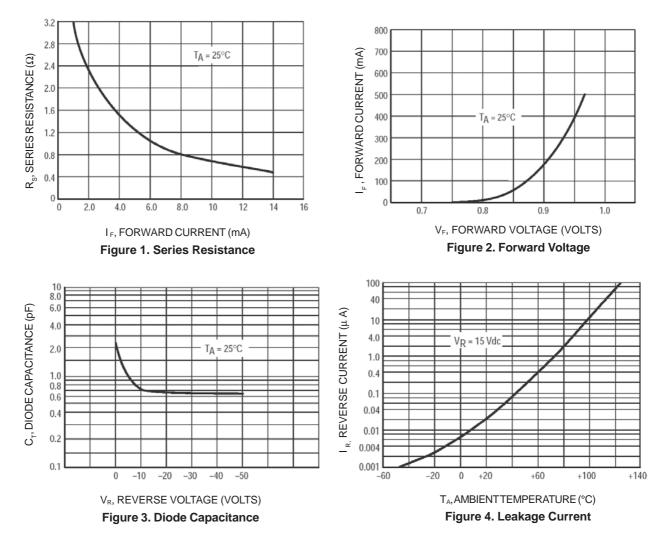
*FR-4 Minimum Pad

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

Characteristic	Symbol	Min	Тур	Мах	Unit
Reverse BreakdownVoltage	V _{(BR)R}	200	_	—	Vdc
(I _R = 10 μAdc)					
Diode Capacitance	C _T	—	—	1.0	pF
(V _R = 20 Vdc, f = 1.0 MHz)					
Series Resistance	R _s	—	0.7	1.0	Ω
(I _F = 10 mAdc)					
Reverse Leakage Current	I _R	—	_	0.1	μAdc
(V _R = 150 Vdc)					
Reverse Recovery Time	t _{rr}	—	300	—	ns
$(I_F = I_R = 10 \text{ mAdc})$					



MMVL3700T1



TYPICAL CHARACTERISTICS