

### **Features**

- · Fast Switching Speed
- · Low Current Leakage
- · Compression Bond Construction
- · Moisture Sensitivity Level 1
- · Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS ÁWÁ Compliant. See Ordering Information)

# **Maximum Ratings**

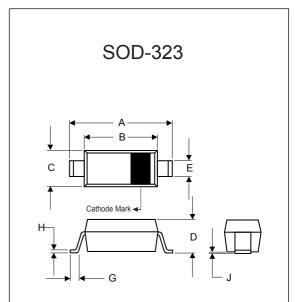
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 625°C/W Junction to Ambient

MCC Part Number	Device Marking		
MMDL914	5D		

Parameter	Symbol	Value	
Maximum DC Blocking Voltage	$V_R$	100V	
Average Forward Current	I <sub>F(AV)</sub>	200mA	
Peak Forward Surge Current(t=8.3ms)	I <sub>FSM</sub>	0.5A	
Power Dissipation	P <sub>D</sub>	200mW	

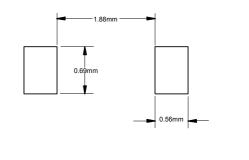
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

# High Speed Switching Diode



	DIMENSIONS					
DIM INCHES		HES	MM		NOTE	
Dilvi	MIN	MAX	MIN	MAX	NOTE	
Α	0.090	0.107	2.30	2.70		
В	0.063	0.071	1.60	1.80		
С	0.045	0.053	1.15	1.35		
D	0.031	0.045	0.80	1.15		
Е	0.010	0.016	0.25	0.40		
G	0.004	0.018	0.10	0.45		
Н	0.004	0.010	0.10	0.25		
J		0.006		0.15		

## Suggested Solder Pad Layout



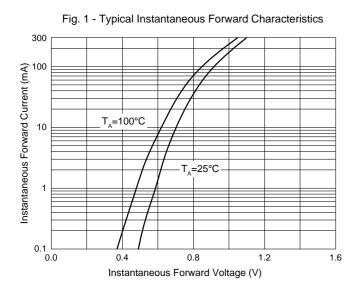


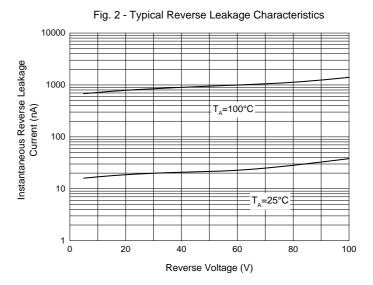
# Electrical Characteristics @ 25°C (Unless Otherwise Specified)

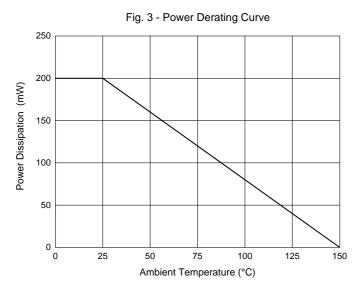
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	$V_{BR}$	I <sub>R</sub> =100μA	100			V
Forward Voltage	V <sub>F</sub>	I <sub>F</sub> =10mA			1	V
Reverse Current	ı	V <sub>R</sub> =20V			25	nA
Reverse Current	l <sub>R</sub>	V <sub>R</sub> =75V			50	μA
Junction Capacitance	CJ	$V_R = 0V$ , $f = 1MHz$			4	pF
Reverse Recovery Time	t <sub>rr</sub>	$I_F=I_R=10\text{mA},$ $I_{rr}=0.1\times I_R, R_L=100\Omega$			4	ns



## **Curve Characteristics**









# **Ordering Information**

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

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