

#### **Features**

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

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance:357°C/W Junction to Ambient

MCC Part Number	Device Marking	Non-Repetitive Peak Reverse voltage V <sub>RM</sub>	Continuous Reverse Voltage V <sub>R</sub>
MMBD4148	KA2	100V	75V

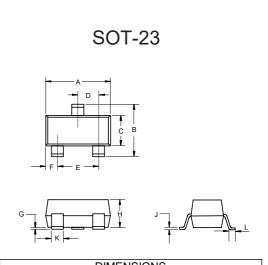
Average Rectified Output Current	l <sub>o</sub>	200mA	Resistive Load f > 50Hz
Peak Forward Surge Current	I <sub>FSM</sub>	1A	t=1s,Non-Repetitive
Power Dissipation	P <sub>TOT</sub>	350mW	

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

#### **Internal Structure**

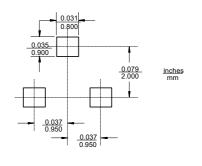


# 350mW 100 Volt Silicon Epitaxial Diode



DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.110	0.120	2.80	3.04	
В	0.083	0.104	2.10	2.64	
С	0.047	0.055	1.20	1.40	
D	0.034	0.041	0.85	1.05	
Е	0.067	0.083	1.70	2.10	
F	0.018	0.024	0.45	0.60	
G	0.0004	0.006	0.01	0.15	
Н	0.035	0.043	0.90	1.10	
J	0.003	0.007	0.08	0.18	
K	0.014	0.020	0.35	0.51	
L	0.007	0.020	0.20	0.50	

#### Suggested Solder Pad Layout





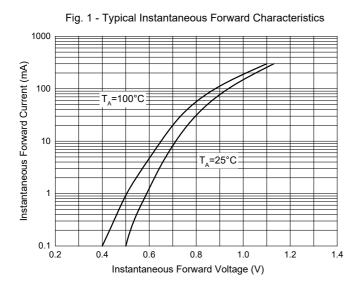
# Electrical Characteristics @ 25°C Unless Otherwise Specified

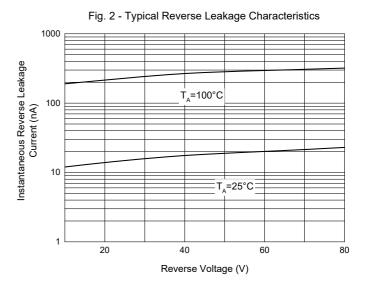
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.855V	I <sub>FM</sub> =10.0mA,T <sub>j</sub> =25°C *
Maximum DC Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	25nA	V <sub>R</sub> =20V,T <sub>j</sub> =25°C
Typical Junction Capacitance	С	2.0pF	V <sub>R</sub> =0.0V,f=1.0MHz
Reverse Recovery Time	t <sub>rr</sub>	4.0ns	$I_F=10\text{mA}, V_R=6V$ $R_L=100\Omega$

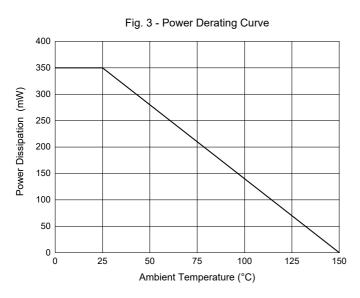
<sup>\*</sup>Pulse test: Pulse width 300  $\mu$ sec, Duty cycle 2%



### **Curve Characteristics**









# **Ordering Information**

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

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