

Features

- Halogen Free. "Green" Device (Note 1)
- AEC-Q101 Qualified
- Low Current Leakage
- 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(Note 2)

MCC Part Number	Repetitive Peak Reverse Voltage V _{RRM}	RMS Reverse Voltage V _{R(RMS)}	DC Blocking Voltage V _R
MMBD4148HE3	100V	71V	100V

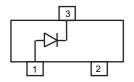
Electrical Characteristics @ 25°C Unless Otherwise Specifie

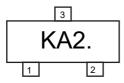
Parameter	Symbol	Value
Average Forward Current	I _{F(AV)}	200mA
Peak Forward Surge Current (t=1s)	I _{FSM}	1A
Power Dissipation	P _D	350mW

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

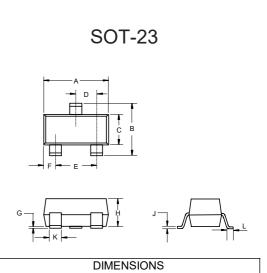
2. Valid Provided that Terminals are Kept at Ambient Temperature.

Internal Structure and Marking Code



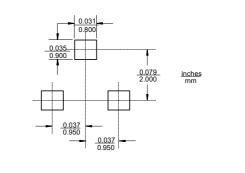


350mW 100 Volt Silicon Epitaxial Diode



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
DIN	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		
E	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





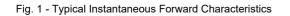
Electrical Characteristics @ 25°C Unless Otherwise Specified

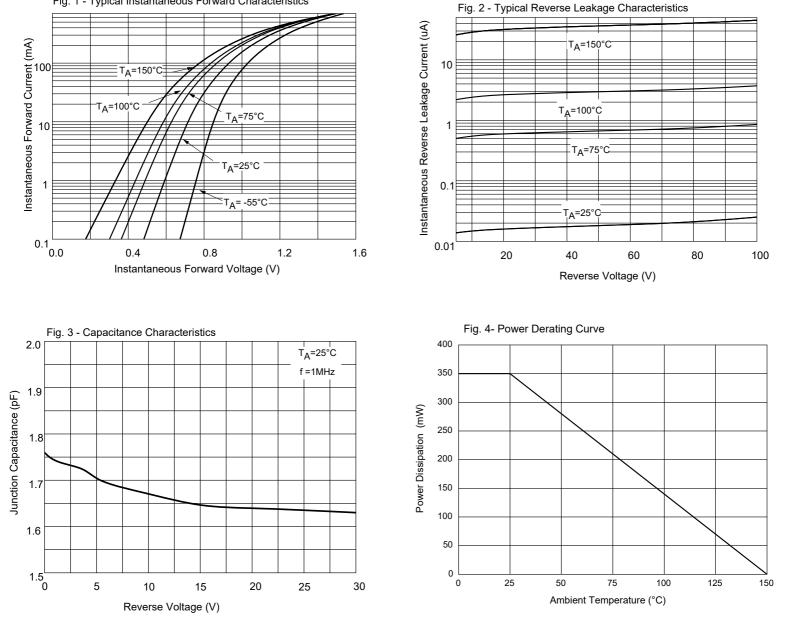
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Breakdown Voltage	V_{BR}	Ι _R =100μΑ	100			V
Instantaneous Forward Voltage	V _F	I _F =10mA			0.855	V
DC Reverse Current	I _R	V _R =20V, T _J =25°C			25	nA
Junction Capacitance	CJ	V _R = 0V, f = 1MHz			4	pF
Reverse Recovery Time	t _{rr}	I _F =10mA, V _R = 6.0V,R _L =100Ω			4	ns

* Pulse Test: Pulse Width 300 µsec, Duty Cycle 2%



Curve Characteristics







Ordering Information

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

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