查询MMBD4448-7-F供应商

捷多邦,专业PCB打样工厂,24小时加急出货



MMBD4448

SURFACE MOUNT SWITCHING DIODE

Features		-TP	00	M
Fast Switching Speed	SOT-23			
Surface Mount Package Ideally Suited for Automatic Insertion	A 14 1-2- "	Dim	Min	Max
For General Purpose Switching Applications	→ ; ← A	Α	0.37	0.51
High Conductance	<u>↑</u>	В	1.20	1.40
Lead Free/RoHS Compliant (Note 3)		C	2.30	2.50
lechanical Data		D	0.89	1.03
Case: SOT-23		E	0.45	0.60
Case material: Molded Plastic. UL Flammability	бр(← G →) ← н	G	1.78	2.05
Classification Rating 94V-0		Н	2.80	3.00
Moisture Sensitivity: Level 1 per J-STD-020C		J	0.013	0.10
Terminals: Solderable per MIL-STD-202, Method 208 Lead Free Plating (Matte Tin Finish annealed over Alloy 42		к	0.903	1.10
leadframe).		L	0.45	0.61
Polarity: See Diagram		М	0.085	0.180
Marking: KA3 (See Page 2)			0	8
Weight: 0.008 grams (approx.)		All Din	nensions	in mm

Maximum Ratings @ T_A = 25 C unless otherwise specified

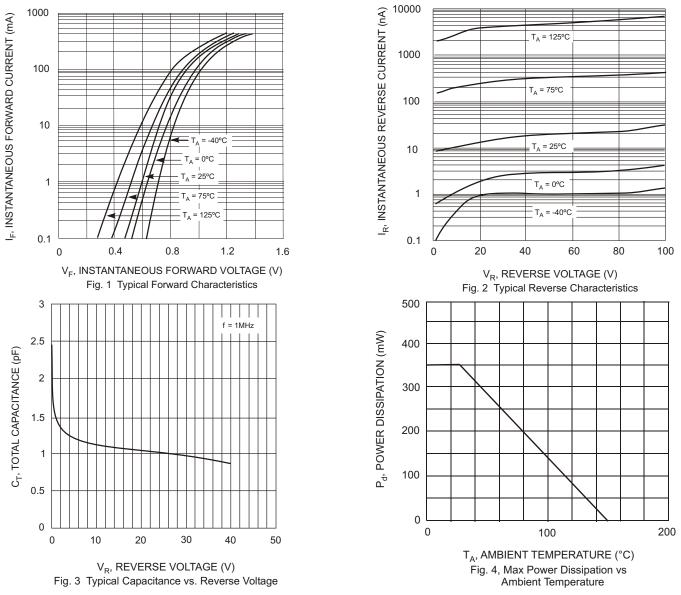
Characteristic	Symbol	MMBD4448	Unit	
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V	
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	75	LOZSC.UC	
RMS Reverse Voltage	V _{R(RMS)}	53	V	
Forward Continuous Current (Note 1)	I _{FM}	500	mA	
Average Rectified Output Current (Note 1)	lo	250	mA	
Non-Repetitive Peak Forward Surge Current @ $t = 1.0 s$ @ $t = 1.0s$	IFSM	4.0 2.0	А	
Power Dissipation (Note 1)	Pd	350	mW	
Thermal Resistance Junction to Ambient Air (Note 1)	R ja	357	C/W	
Operating and Storage Temperature Range	Tj, T _{STG}	-65 to +150	С	

Electrical Characteristics @ T_A = 25 C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage (Note 2)	V _{(BR)R}	75		V	I _R = 2.5 A
Forward Voltage (Note 2)	VF	0.62	0.72 0.855 1.0 1.25	V	$I_F = 5.0mA$ $I_F = 10mA$ $I_F = 100mA$ $I_F = 150mA$
Reverse Current (Note 2)	I _R		2.5 50 30 25	A A A nA	$\begin{array}{c} V_{R} = 75V \\ V_{R} = 75V, \ T_{j} = 150 \ C \\ V_{R} = 25V, \ T_{j} = 150 \ C \\ V_{R} = 20V \end{array}$
Total Capacitance	Ст		4.0	pF	V _R = 0, f = 1.0MHz
Reverse Recovery Time	t _{rr}		4.0	ns	$I_{F} = I_{R} = 10 \text{mA}, \\ I_{rr} = 0.1 \text{ x } I_{R}, R_{L} = 100$

PP Part mounted on FR-4 board with recommended pad layout, which can be found on our website thttp://www.diodes.com/datasheets/ap02001.pdf. 2. Short duration test pulse used to minimize self-heating effect. odf.dzscsc.wo purposefully added lead.



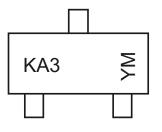


Ordering Information (Note 4)

Device	Packaging	Shipping		
MMBD4448-7-F	SOT-23	3000/Tape & Reel		

Notes: 4. For Packaging Details, go to our website at http://www.diodes.com/datasheets/ap02007.pdf.

Marking Information



KA3 = Product Type Marking Code YM = Date Code Marking Y = Year ex: N = 2002 M = Month ex: 9 = September

Date Code Key

Year		1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Code		К	L	М	Ν	Р	R	S	Т	U	V	W
Month	Jan	Feb	March	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Code	1	2	3	4	5	6	7	8	9	0	N	D



IMPORTANT NOTICE

Diodes, Inc. and its subsidiaries reserve the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. Diodes, Inc. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Diodes Incorporated and all the companies whose products are represented on our website, harmless against all damages.

LIFE SUPPORT

The products located on our website at **www.diodes.com** are not recommended for use in life support systems where a failure or malfunction of the component may directly threaten life or cause injury without the expressed written approval of Diodes Incorporated.