



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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MMBD2004S

Features

- Designed for applications requiring high voltage capability
- Low Current Leakage
- Small Outline Surface Mount Package
- Lead Free Finish/Rohs Compliant ("P"Suffix designates RoHS Compliant. See ordering information)
- Marking: B6D
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

Operating Temperature: -65°C to +150°C

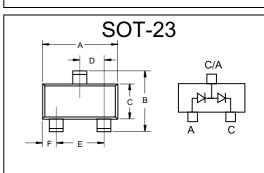
Storage Temperature: -65°C to +150°C

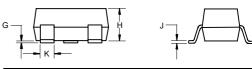
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	V_{RM}	300	V
DC Blocking Voltage	V_R	240	V
Peak Repetitive Current	Io	200	mA
Continuous Forward Current	I _F	225	mA
Peak Repetitive Forward Current	I _{FRM}	625	mA
Forward Surge Current @t=1us	Irou	4.0	Α
@t=1s	I _{FSM}	1.0	Α
Power Dissipation	P_{D}	250	mW

Parameter	Symbol	Test Conditions	MIN	MAX	UNIT
Reverse breakdown voltage	V_{BR}	I _R =100uA	240		V
Reverse voltage leakage current	I_R	V _R =240V		0.1	uA
Forward voltage	V_{F}	I _F =100mA		1	V
Diode capacitance	C _D	V _R =0V,f=1MHz		5	pF
Reverse recovery time	T _{rr}	$I_F=I_R=30\text{mA},$ $R_L=100\Omega$		50	ns

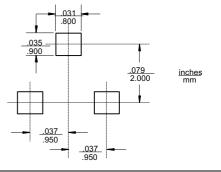
250mW 300Volt Dual Series Switching Diode





DIMENSIONS						
	INCHES		MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.110	.120	2.80	3.04		
В	.083	.098	2.10	2.64		
С	.047	.055	1.20	1.40		
D	.035	.041	.89	1.03		
Е	.070	.081	1.78	2.05		
F	.018	.024	.45	.60		
G	.0005	.0039	.013	.100		
Н	.035	.044	.89	1.12		
J	.003	.007	.085	.180		
K	.015	.020	.37	.51		

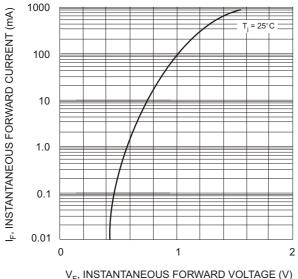
Suggested Solder Pad Layout



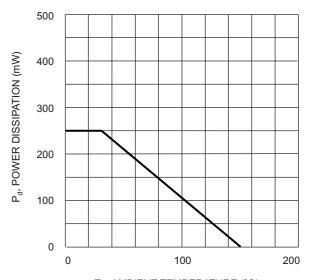
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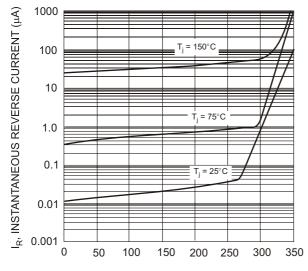
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 $V_{\rm F}$, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 1 Forward Characteristics



T_A, AMBIENT TEMPERATURE (°C) Fig. 2 Power Dissipation Derating



V_R, INSTANTANEOUS REVERSE VOLTAGE (V) Fig. 3 Typical Reverse Characteristics, per element



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Ordering Information:

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

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