



Micro Commercial Components
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MMBD2004SWT

Features

- Halogen free available upon request by adding suffix "-HF"
- 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: -55°C to +150°C
- Storage Temperature: -55°C to +150°C

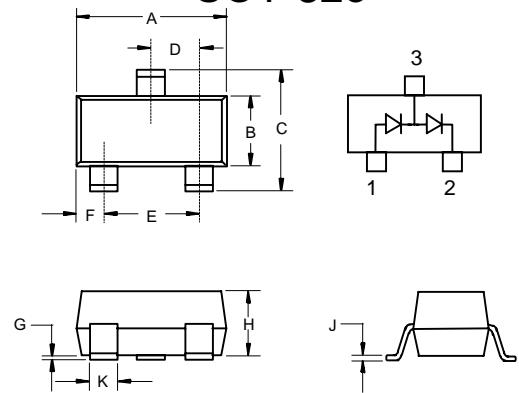
Electrical Characteristics @ 25°C Unless Otherwise Specified

Parameter	Symbol	Limits	Unit
Non-Repetitive Peak reverse voltage	V_{RM}	300	V
DC Blocking Voltage	V_R	240	V
Continuous Forward Current	I_F	225	mA
Peak Repetitive Forward Current	I_{FRM}	625	mA
Forward Surge Current @ $t=1\mu s$	I_{FSM}	4.0	A
@ $t=1s$		1.0	A
Power Dissipation	P_D	250	mW

Parameter	Symbol	Test Conditions	MIN	MAX	UNIT
Reverse breakdown voltage	V_{BR}	$I_R=100\mu A$	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}	$I_F=I_R=30mA, R_L=100\Omega$	...	50	ns

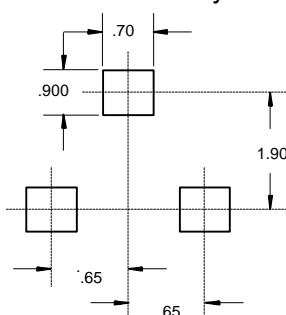
250mW 300Volt Dual Series Switching Diode

SOT-323

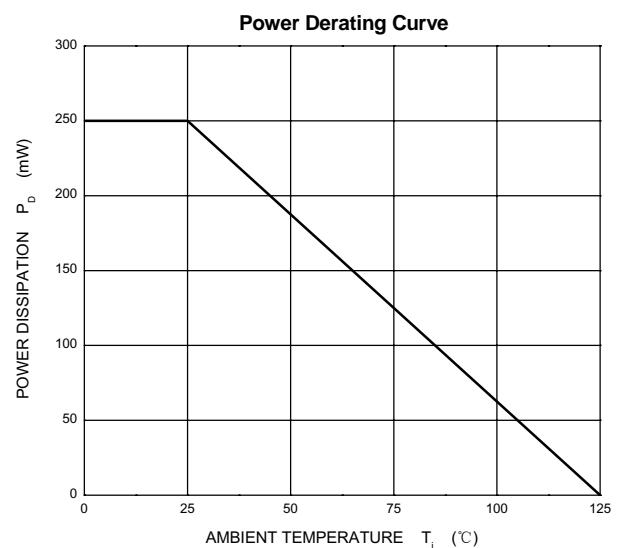
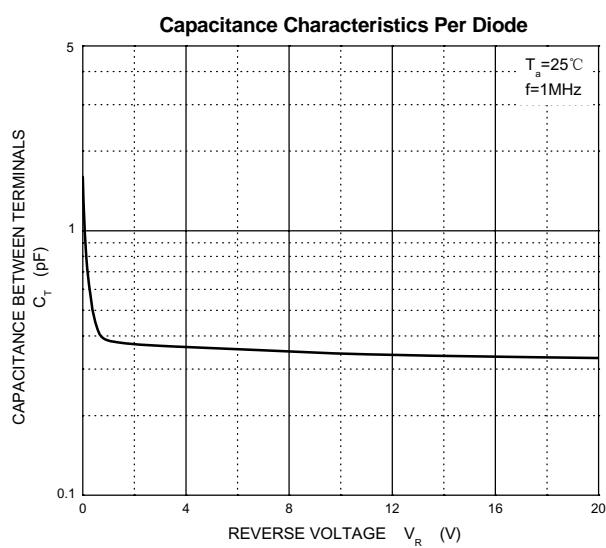
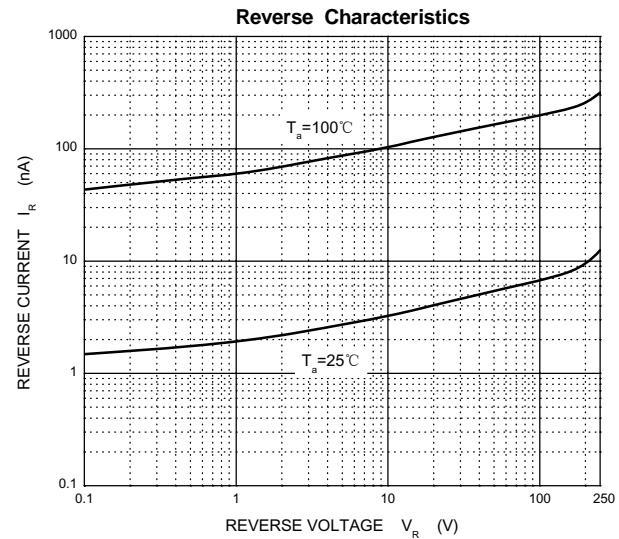
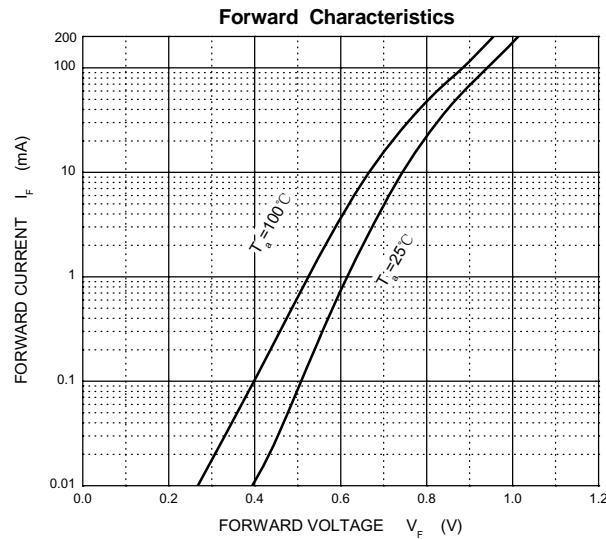


DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.079	.087	2.00	2.20	
B	.045	.053	1.15	1.35	
C	.085	.096	2.15	2.45	
D	.026 Nominal		0.65 Nominal		
E	.047	.055	1.20	1.40	
F	.012	.016	.30	.40	
G	.000	.004	.000	.100	
H	.035	.039	.90	1.00	
J	.003	.006	.080	.150	
K	.008	.016	.20	.40	

Suggested Solder
Pad Layout



Typical Characteristics



Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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