

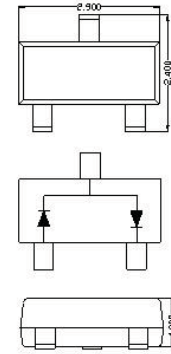
Switching Diode

FEATURES

- * Fast Switching Speed
- * For General Purpose Switching Applications
- * High Conductance
- * Low Current Leakage
- * Small Outline Surface Mount Package
- * RoHS compliant / Green EMC

Device Marking Code	
MMBD5004S	KJB

SOT23 Unit:mm



Maximum Ratings (Ta = 25 °C)

Symbol	Parameter	Value	Units
V_{RRM}	Repetitive Peak Reverse Voltage	400	V
V_R	DC Blocking Voltage	350	V
V_{RWM}	Working Peak Reverse Voltage		
$V_R (RMS)$	RMS Reverse Voltage	247	V
I_F	Forward Continuous Current	300	mA
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	357	°C/W
I_{FSM}	Non-Repetitive Peak Forward Surge Current	@t=1us,	5
		@t=1ms,	3
P_D	Power Dissipation	350	mW
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature	-55 to +150	°C

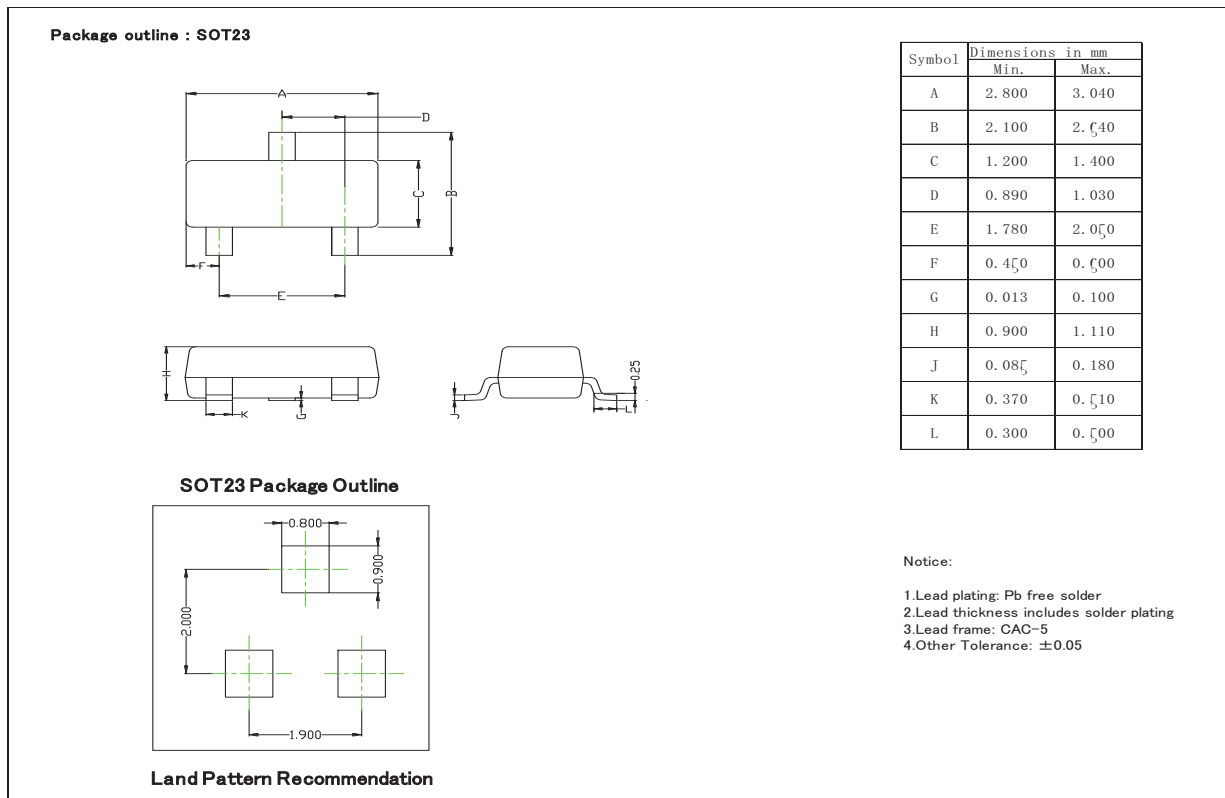
Electrical Characteristics (Ta = 25 °C)

Symbol	Parameter	Test Conditions	Min	Max	Units
V_F	Forward Voltage	$I_F=20mA$		0.93	V
		$I_F=100mA$		1.1	
		$I_F=200mA$		1.29	
V_R	Reverse breakdown voltage	$I_R=150uA$	400		V
I_R	Reverse voltage leakage current	$V_R=240V$		150	nA
		$V_R=360V$		5	uA
C_T	Capacitance between terminals	$V_R=0V, f=1MHz$		2	pF
T_{rr}	Reverse recovery time	$I_F=I_R=30mA$ $I_{rr}=3.0mA, R_L=100\Omega$		50	nS

Ordering Information

Device	Package	Shipping	Tape wide	Emboss pitch	Tape specification	Package Code
MMBD5004S	SOT23	Tape & Reel 3000pcs /7" Reel	8mm	4mm	Conductive	-T

Package Dimensions



DISCLAIMER NOTICE

Rectron Inc reserves the right to make changes without notice to any product specification herein, to make corrections, modifications, enhancements or other changes. Rectron Inc or anyone on its behalf assumes no responsibility or liability for any errors or inaccuracies. Data sheet specifications and its information contained are intended to provide a product description only. "Typical" parameters which may be included on RECTRON data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. Rectron Inc does not assume any liability arising out of the application or use of any product or circuit.

Rectron products are not designed, intended or authorized for use in medical, life-saving implant or other applications intended for life-sustaining or other related applications where a failure or malfunction of component or circuitry may directly or indirectly cause injury or threaten a life without expressed written approval of Rectron Inc. Customers using or selling Rectron components for use in such applications do so at their own risk and shall agree to fully indemnify Rectron Inc and its subsidiaries harmless against all claims, damages and expenditures.