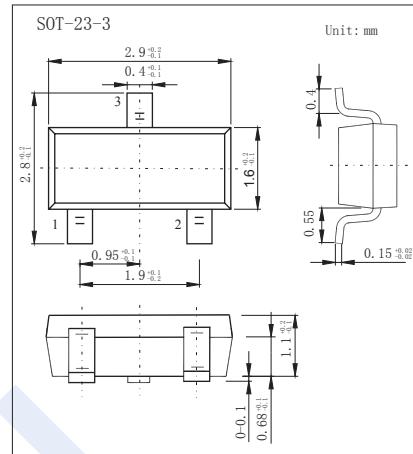


Switching Diodes

MMBD2004/A/C/S (KMBD2004/A/C/S)

■ Features

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- High Reverse Breakdown Voltage
- Dual Series Configuration



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _{RM}	300	V
Working Peak Reverse Voltage	V _{RWM}	240	
DC Blocking Voltage	V _R	240	
RMS Reverse Voltage	V _{RMS}	170	
Peak Forward Surge Current	I _{FM}	225	mA
Peak Repetitive Forward Current	I _{FRM}	625	
Non-Repetitive Peak Forward Surge Current @ t=1us @ t=1s	I _{FSM}	4 1	A
Power Dissipation	P _d	350	mW
Thermal Resistance Junction to Ambient	R _{θJA}	357	°C/W
Junction Temperature	T _J	150	°C
Storage Temperature range	T _{stg}	-65 to 150	

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Reverse breakdown voltage	V _R	I _R = 100 uA	300			V
Forward voltage	V _F	I _F = 20 mA			0.87	
		I _F = 100 mA			1	
Reverse voltage leakage current	I _R	V _R = 240 V			100	nA
		V _R = 240 V , T _J =150°C			100	uA
Total capacitance	C _T	V _R = 0 V, f= 1 MHz			5	pF
Reverse recovery time	t _{rr}	I _F =I _R =30mA,I _{rr} =3 mA,R _L =100Ω			50	ns

Switching Diodes

MMBD2004/A/C/S (KMBD2004/A/C/S)

■ Marking

Item	Marking	Equivalent Circuit diagram
MMBD2004	DB3	
MMBD2004C	DB4	
MMBD2004A	DB5	
MMBD2004S	DB6	

■ Typical Characteristics

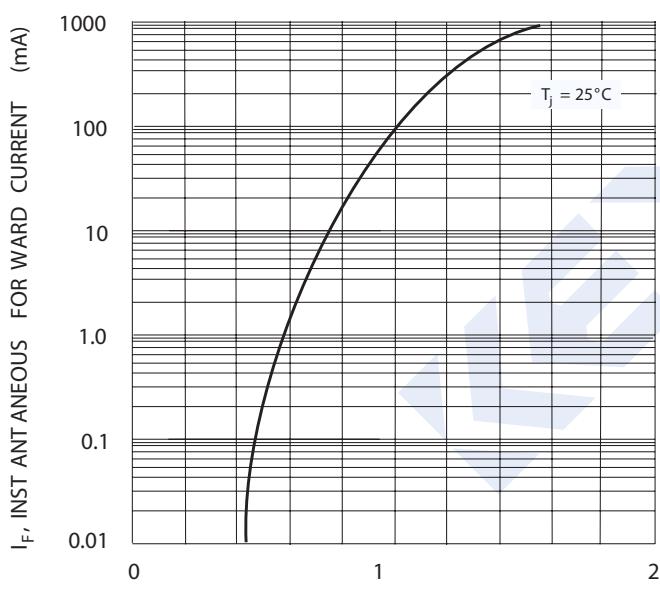


Fig. 1 Forward Characteristics

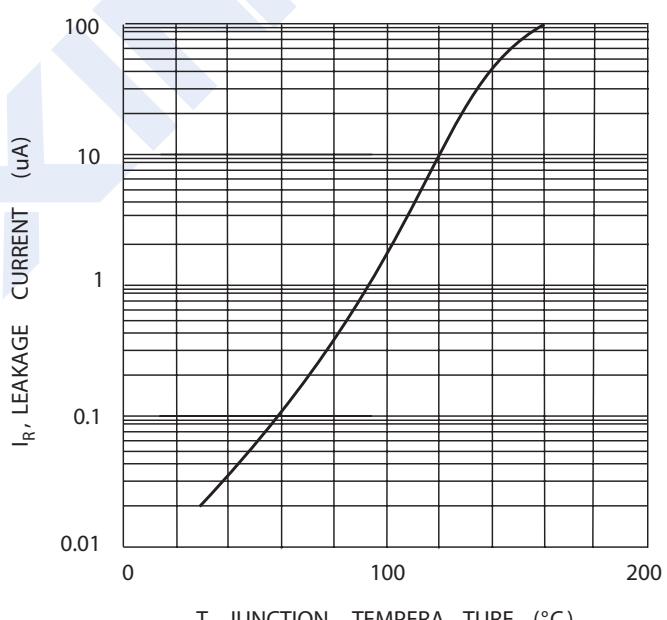


Fig. 2 Leakage Current vs Junction Temperature