

FEATURE

- Fast Switching Speed
- High Conductance
- High Reverse Breakdown Voltage Rating
- We declare that the material of product compliance with RoHS requirements.
- **Moisture Sensitivity Level 1**

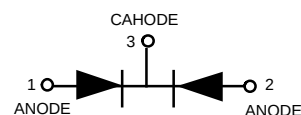
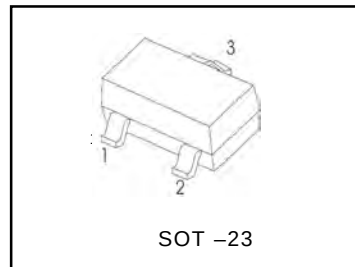
Ordering Information(Pb-free)

Device	Marking	Shipping
MMBD3004C	KAC	3000/Tape&Reel

Pb-Free package is available

RoHS product for packing code suffix "G"

Halogen free product for packing code suffix "H"



Maximum Ratings @ TA=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Repetitive Peak Reverse Voltage	VRRM	350	V
Working Peak Reverse Voltage	VRWM	300	V
DC Blocking Voltage	VR		
RMS Reverse Voltage	VR(RMS)	212	V
Forward Continuous Current(Note 2)	IF	225	mA
Peak Repetitive Forward Current(Note 2)	IFRM	625	mA
Non-Repetitive Peak Forward Surge Current @t=1.0μs	IFSM	4.0	A
@t=1.0s		1.0	
Power Dissipation(Note 2)	Pd	350	mW
Thermal Resistance Junction to Ambient Air(Note 2)	RθJA	357	°C/W
Operating and Storage Temperature Range	Tj, TSTG	-55 to +150	°C

Electrical Characteristics @ TA=25°C unless otherwise specified, per element

Characteristic	Symbol	Min	Typ	MAX	Unit	Test Condition
Reverse Breakdown Voltage(Note 1)	V(BR)R	350			V	IR=100μA
Forward Voltage(Note 1)	VF		0.78 0.93 1.03	0.87 1.0 1.25	V	IF=20mA IF=100mA IF=200mA
Reverse Current(Note 1)	IR		30 35	100 100	nA μA	VR=240V VR=240V, Tj=150°C
Total Capacitance	CT		1.0	5.0	Pf	VR=0V, f=1.0MHZ
Reverse Recovery Time	Trr			50	ns	IF=IR=30mA Irr=3.0mA, RL=100Ω

Notes: 1. Short duration test pulse used to minimize self-heating effect.
 2. Part mounted on FR-4 board with recommended pad layout.

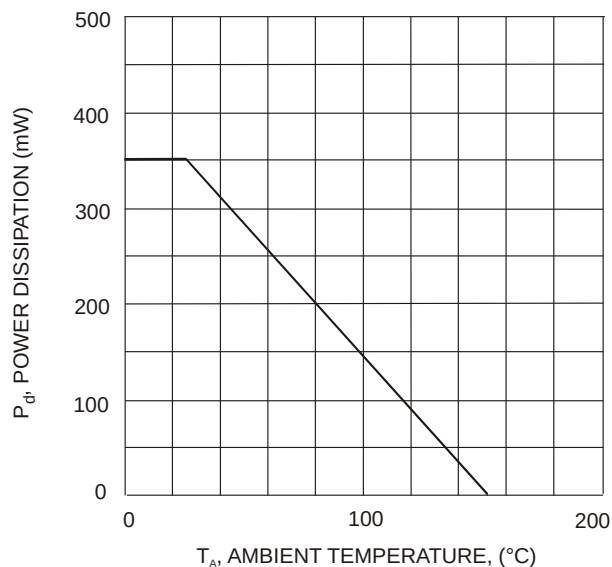


Fig. 1 Power Derating Curve, total package

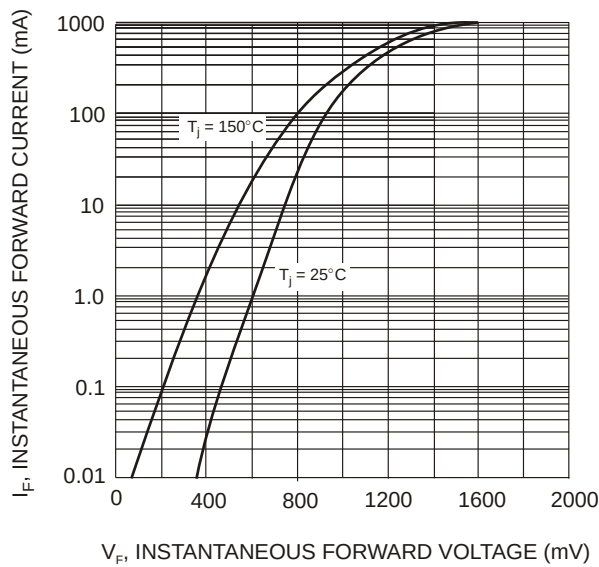


Fig. 2 Typical Forward Characteristics, per element

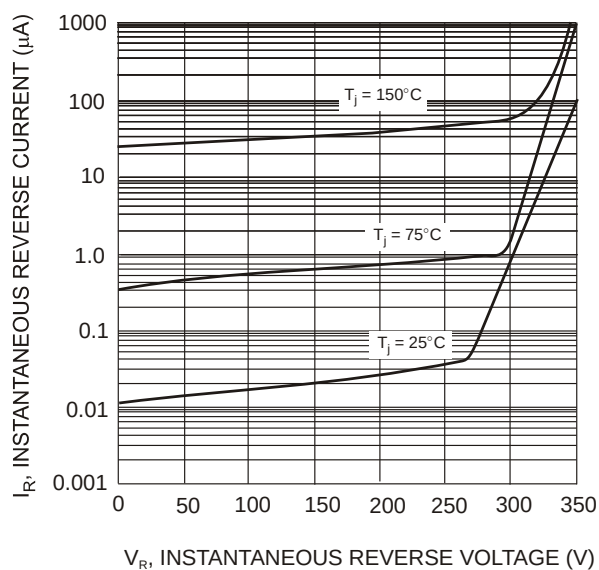


Fig. 3 Typical Reverse Characteristics, per element

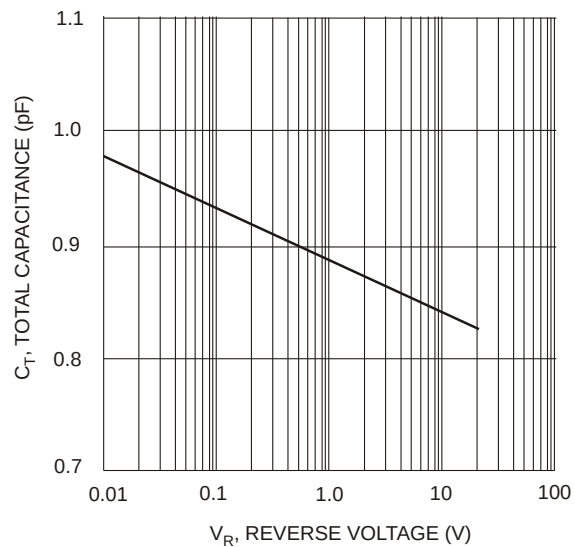
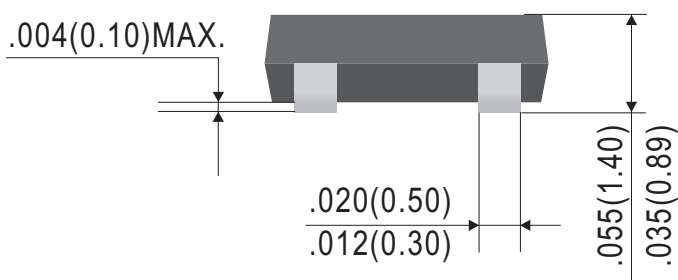
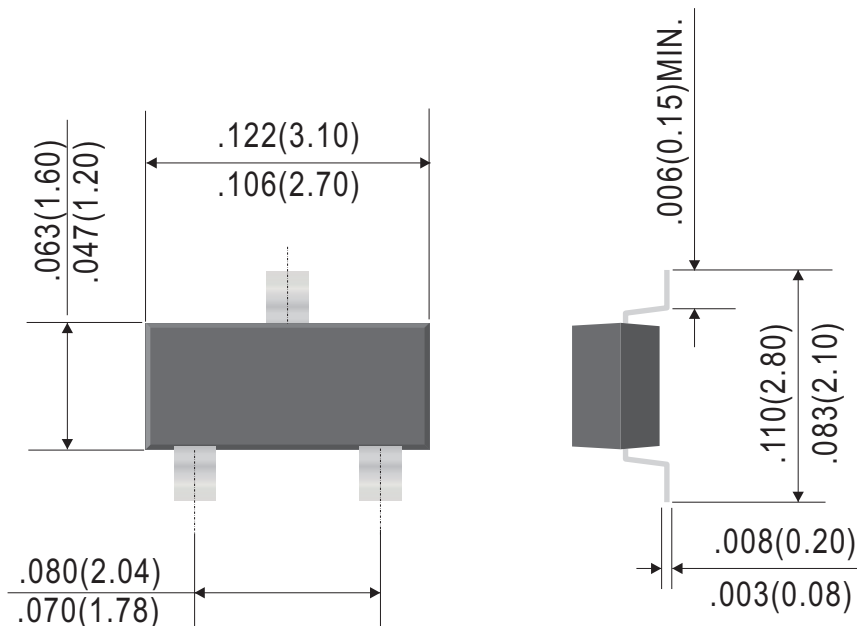


Fig. 4 Typical Total Capacitance vs. Reverse Voltage, per element

SOT-23



Dimensions in inches and (millimeters)

Ordering Information:

Device PN	Packing
MMBD3004C -T ⁽¹⁾ G ⁽²⁾ -WS	Tape&Reel: 3 Kpcs/Reel

Note: (1) Packing code, Tape&Reel Packing

(2) RoHS product for packing code suffix "G" ; Halogen free product for packing code suffix "H"

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