

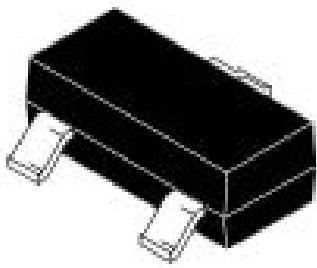
MMBD7000LT1G:

Dual Switching Diode

Product Feature Sheet

Features

- AEC Q-101 qualified and PPAP capable
- S prefix for automotive and other applications requiring unique site and control change requirements
- These devices are Pb-free, halogen free/BFR free and are RoHS compliant



Ordering Information

Device	Package
MMBD7000LTG1	SOT-23 (Pb-Free)
SMMBD7000LT1G	SOT-23 (Pb-Free)
MMBD7000LT3G	SOT-23 (Pb-Free)
SMMBD7000LT3G	SOT-23 (Pb-Free)

Absolute Maximum Ratings:

Rating	Symbol	Value	Unit
Reverse Voltage	V _R	100	Vdc
Forward Current	I _F	200	mAdc

Thermal Characteristics:

Characteristics	Symbol	Max	Unit
Total Device Dissipation FR-5 Board (Note 1) T _A = 25°C Derate Above 25°C	P _D	225	mW
		1.8	mW/°C
Thermal Resistance, Junction to Ambient	R _{θJA}	556	°C/W
Total Device Dissipation Alumina Substrate, (Note 2) T _A = 25°C Derate Above 25°C	P _D	300	mW
		2.4	mW/°C
Thermal Resistance Junction-to-Ambient	R _{θJA}	417	°C/W
Junction and Storage Temperature	T _J , T _{Stg}	-55 to +150	°C

Electrical Characteristics (T_A = 25°C unless otherwise noted) (Each Diode)

Characteristics	Symbol	Min	Max	Unit
Reverse Breakdown Voltage (I _(BR) = 100 μAdc)	V _(BR)	100	-	Vdc
Reverse Voltage Leakage Current (V _R = 50 Vdc) (V _R = 100 Vdc) (V _R = 50 Vdc, 125°C)	I _R I _{R2} I _{R3}	- - -	1.0 3.0 100	μAdc
Forward Voltage (I _F = 1.0 mAdc) (I _F = 10 mAdc) (I _F = 100 mAdc)	V _F	0.55 0.67 0.75	0.7 0.82 1.1	Vdc
Reverse Recovery Time (I _(BR) = 100 μAdc)	t _{rr}	-	4.0	ns
Capacitance (V _R = 0 V)	C	-	1.5	pF