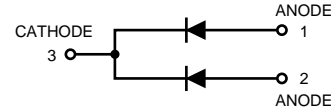
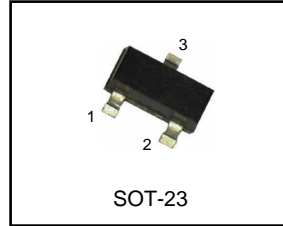


Monolithic Dual Switching Diode

MMBD2837



MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Peak Reverse Voltage	VRM	75	Vdc
D.C Reverse Voltage	VR	30	Vdc
Peak Forward Current	IFM	450 300	mAdc
Average Rectified Current	IO	150 100	mAdc

THERMAL CHARACTERISTICS

Characteristic	Symbol	Max.	Unit
Total Device Dissipation FR-5 Board ⁽¹⁾ TA=25°C Derate above 25°C	PD	225 1.8	mW mW / °C
Thermal Resistance, Junction to Ambient	RθJA	556	°C / W
Total Device Dissipation Alumina Substrate, ⁽²⁾ TA=25°C Derate above 25°C	PD	300 2.4	mW mW / °C
Thermal Resistance, Junction to Ambient	RθJA	417	°C / W
Junction and Storage Temperature	TJ,TSTG	-55 to +150	°C

DEVICE MARKING

MMBD2837=A5

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted) (EACH DIODE)

Characteristic	Symbol	Min.	Max.	Unit
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OFF CHARACTERISTICS

Reverse Breakdown Voltage (IBR=100 uAdc)	V(BR)	35	-	Vdc
Forward Voltage (IF=10 mAdc) (IF=50 mAdc) (IF=100 mAdc)	VF	- - -	1000 1000 1200	mVdc
Reverse Voltage Leakage Current (VR=30 Vdc)	IR	- -	0.1	uAdc
Diode Capacitance (VR=0, f=1.0MHZ)	CJ	-	4.0	pF
Reverse Recovery Time (IF=IR=10 mAdc, IR(REC)=1.0mAdc, measured at IR=1.0mA RL=100 Ω)	trr	-	4.0	nS

(1) FR-5=1.0 x 0.75 x 0.062in.

(2) Alumina=0.4 x 0.3 x 0.024in. 99.5% alumina.

