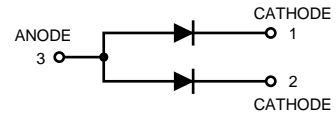
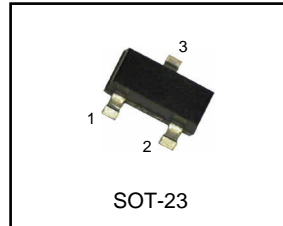


Monolithic Dual Switching Diode

MMBD2835



MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Continuous Reverse Voltage	VR	35	Vdc
Peak Forward Current	IF	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	R θ JA	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	R θ JA	417	°C / W
Junction and Storage Temperature	TJ,TSTG	-55 to +150	°C

DEVICE MARKING

MMBD2835=A3X

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

Characteristic	Symbol	Min.	Max.	Unit
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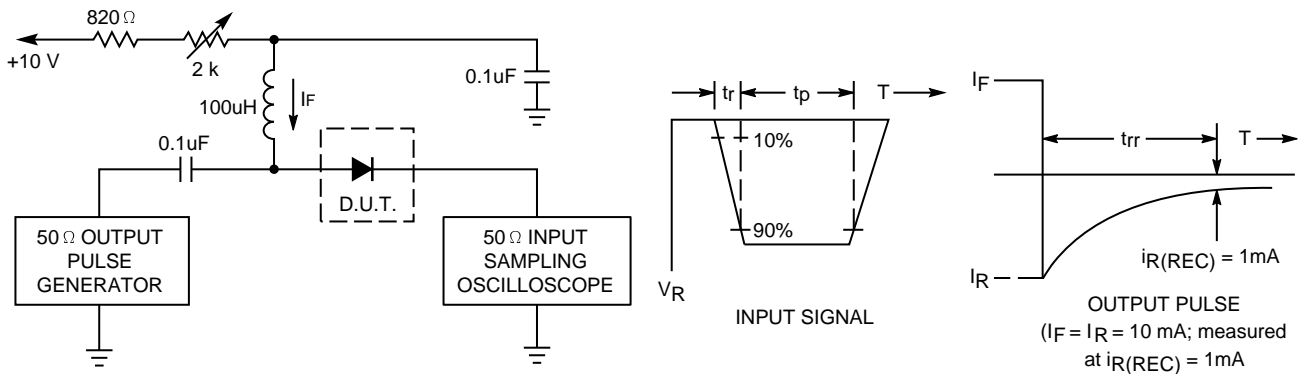
OFF CHARACTERISTICS

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=20 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.

FIGURE 1. RECOVERY TIME EQUIVALENT TEST CIRCUIT



- Notes: 1. A 2.0kΩ variable resistor adjusted for a Forward Current (IF) of 10mA.
- 2. Input pulse is adjusted so IR(peak) is equal to 10mA.
- 3. tp » trr

FIGURE 2. FORWARD VOLTAGE

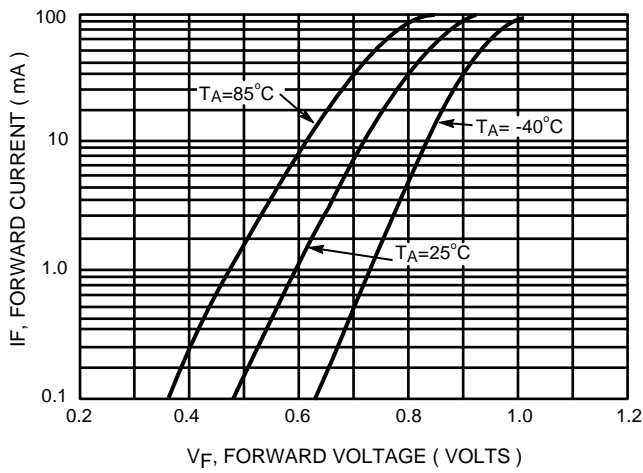


FIGURE 3. LEAKAGE CURRENT

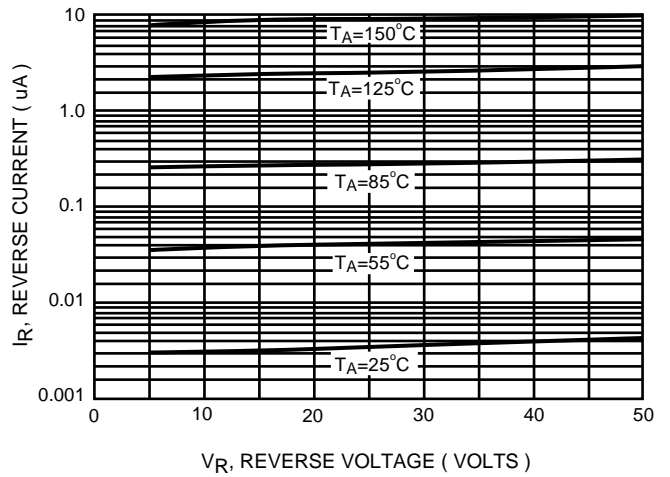


FIGURE 4. CAPACITANCE

