MMBD2838

Small Signal Switching Diodes

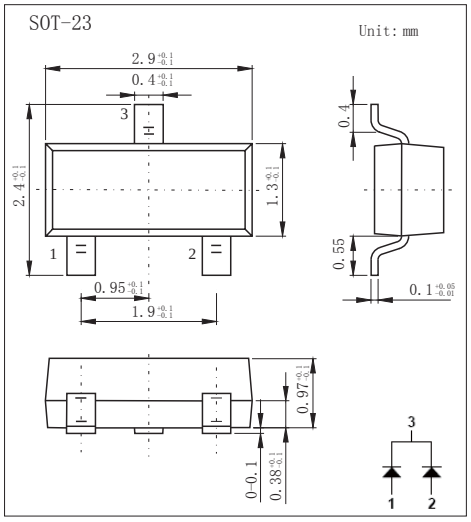
VOLTAGE RANGE: 75V
PEAK PULSE POWER:350mW

Features

- Ultra small mold type
- High reliability.
- High speed switching

MECHANICAL DATA

- Case: SOT-23 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Maximum Repetitive Reverse Voltage	V_{RRM}	75	V
Average Rectified Forward Current	$I_{F(AV)}$	200	mA
Non-repetitive Peak Forward Surge Current Pulse Width = 1.0 second Pulse Width = 1.0 microsecond	I_{FSM}	 1.0 2.0	 A A
Power Dissipation	P_D	350	mW
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	357	℃/W
Storage Temperature Range	T_{stg}	-55 to +150	℃
Operating Junction Temperature	T_J	-55 to +150	℃

Electrical Specification (T_A=25°C unless otherwise specified)

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Breakdown Voltage	V_R	I_R = 100 μA	75			V
Forward Voltage	V_F	I_F = 50 mA			1.0	V
		I_F = 100 mA			1.2	V
Reverse Current	I_R	V_R = 50 V			100	nA
Total Capacitance	C_T	V_R = 0, f = 1.0 MHz			4.0	pF
Reverse Recovery Time	t_{rr}	I_F = I_R = 10 mA, I_{RR} = 1.0 mA,R_L = 100 Ω			4.0	ns

■ Marking

Marking	A6