

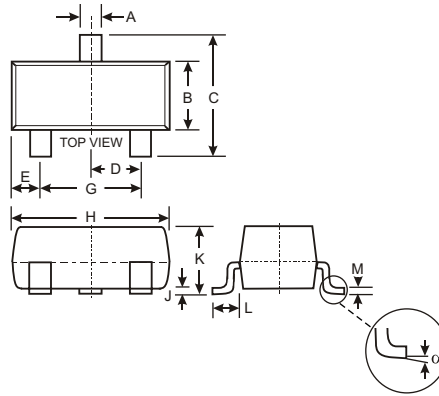


Features

- Low capacitance: $C_t = 4.0 \text{ pF MAX}$
- High speed switching: $t_{rr} = 9.0 \text{ ns MAX}$
- Wide applications including switching, limiter, clipper.
- Double diode configuration assures economical use.

Mechanical Data

- Case: SOD-23, Molded Plastic



SOT-23		
Dim	Min	Max
A	0.37	0.51
B	1.20	1.40
C	2.30	2.50
D	0.89	1.03
E	0.45	0.60
G	1.78	2.05
H	2.80	3.00
J	0.013	0.10
K	0.903	1.10
L	0.45	0.61
M	0.085	0.180
α	0°	8°
All Dimensions in mm		

Maximum Ratings @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Rating	Unit
Peak Reverse Voltage	V_{RM}	70	V
DC Reverse Voltage	V_R	70	V
Peak Reverse Current	I_{FM}	200	mA
Average Rectified Current	I_O	100	mA
DC Forward Current	I_F	100	mA
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	-55 to +150	$^\circ\text{C}$
Junction to Ambient*	$R_{th(j-a)}$	1.0	$^\circ\text{C}/\text{mW}$
Junction to Ambient	$R_{th(j-a)}$	0.67	$^\circ\text{C}/\text{mW}$

Electrical Characteristics @ $T_A = 25^\circ\text{C}$ unless otherwise specified

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Continuous reverse voltage	V_F	$I_F = 1.0 \text{ mA}$		600	715	mV
		$I_F = 10 \text{ mA}$		750	855	
		$I_F = 50 \text{ mA}$		855	1100	
		$I_F = 100 \text{ mA}$		900	1300	
Reverse current	I_R	$V_R = 70 \text{ V}$			1.0	μA
Capacitance	C_t	$V_R = 0, f = 1.0 \text{ MHz}$		2.5	4.0	pF
Reverse recovery time	t_{rr}	$I_F = 100 \text{ mA}, V_R = 1 \text{ V}, R_L = 100 \Omega$			9.0	ns
Forward recovery voltage	V_{fr}	$I_F = 100 \text{ mA}$			1.75	V