

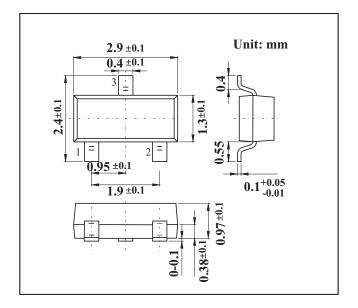
SOT-23 Small Signal Switching Diodes

FEATURES

- Low forward voltage
- •Fast reverse recovery time

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	Limit	Unit
Non-Repetitive Peak Reverse Voltage	V_{RM}	85	V
DC Blocking Voltage	V_R	80	V
Forward Continuous Current	I _{FM}	300	mA
Average Rectified Output Current	Io	100	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	А
Power Dissipation	P_D	150	mW
Thermal Resistance from Junction to Ambient	$R_{ heta JA}$	833	°C/W
Junction Temperature	TJ	150	°C
Storage Temperature Range	T_{STG}	-55~+150	°C

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

Parameter	Symbol		Тур	Max	Unit	Conditions
Reverse breakdown voltage	$V_{(BR)}$	80			V	I _R =100μA
Forward voltage	V _{F1}		0.60		V	I _F =1mA
	V _{F2}		0.72		V	I _F =10mA
	V _{F3}		0.90	1.2	V	I _F =100mA
Reverse current	I _{R1}			0.1	uA	V _R =30V
	I _{R2}			0.5	uA	V _R =80V
Capacitance between terminals	C _T		0.9	3.0	pF	V _R =0,f=1MHz
Reverse recovery time	t _{rr}		1.6	4.0	ns	I _F =I _R =10mA,I _{rr} =0.1×I _R



RATINGS AND CHARACTERISTIC CURVES

