



HFZT

1SS187

Small Signal Switching Diode

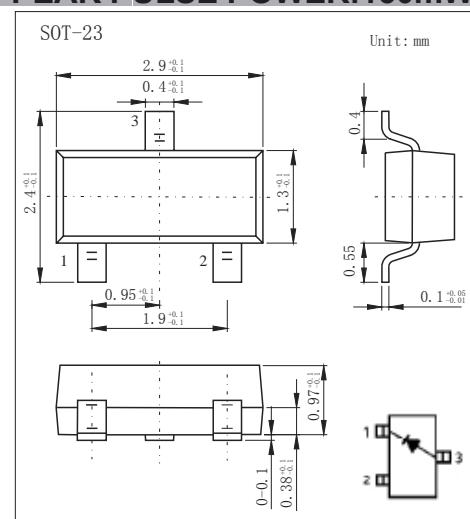
FEATURES

- 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

**VOLTAGE RANGE: 85V
PEAK PULSE POWER:150mW**



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	I _O	100		mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0		A
Power Dissipation	P _D	150		mW
Thermal Resistance from Junction to Ambient	R _{θJA}	833		°C/W
Junction Temperature	T _J	150		°C
Storage Temperature Range	T _{STG}	-55~+150		°C

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

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Reverse breakdown voltage	V _(BR)	80			V	I _R =100μA
Forward voltage	V _{F1}		0.61		V	I _F =1mA
	V _{F2}		0.74		V	I _F =10mA
	V _{F3}		0.92	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		2.2	4.0	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

MARKING: D3•

RATINGS AND CHARACTERISTIC CURVES

