

■ **FEATURES**

- VR 100V
- I_FAV 150mA

■ **TYPICAL APPLICATIONS**

- Extreme fast switches

■ **MECHANICAL DATA**

- Package: SOD523
- Terminals : Tin plated leads, solderable per J-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end
- Marking : T4

■ **MAXIMUM RATINGS** (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	Conditions	VALUE
Repetitive peak reverse voltage	V _{RRM}	V		100
Reverse voltage	V _R	V	IR=100uA	100
Peak forward surge current	I _{FSM}	A	Pulse width=1 us Pulse width=1 s	2 1
Average forward current	I _{FAV}	mA		150
Power dissipation	P _{tot}	mW		150
Maximum junction temperature	T _j			-55 to +150
Storage temperature range	T _{stg}			-55 to +150

■ **ELECTRICAL CHARACTERISTICS** (Ta=25°C Unless otherwise specified)

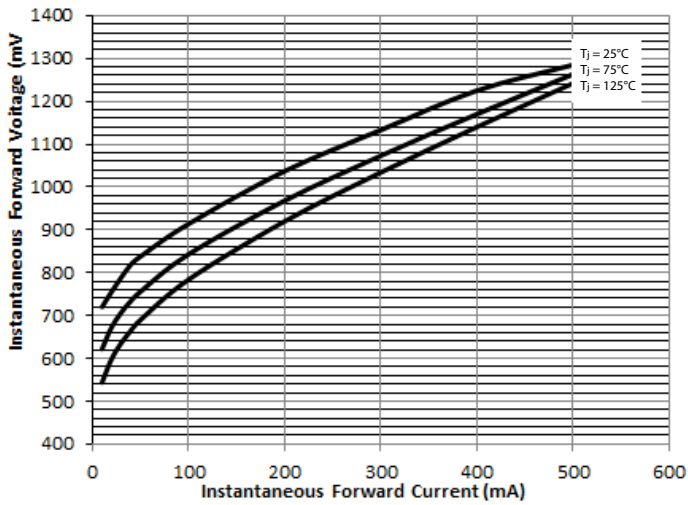
PARAMETER	Symbol	UNIT	Conditions	Min	Max
Breakdown Voltage	V _R	V	IR=100uA	100	
Forward Voltage	V _F	V	IF=5mA		0.715
			IF=10mA		0.855
			IF=100mA		1.00
			IF=150mA		1.25
Reverse Leakage Current	I _{R1}	nA	VR=20V		25
	I _{R2}	uA	VR=75V		1
Capacitance	C	pF	VR=0V, f=1MHz		4
Reverse Recovery Time	T _{rr}	ns	IF=IR=10mA, Irr=0.1*IR, RL=100Ω		4

■ **PACKAGING INFORMATION**

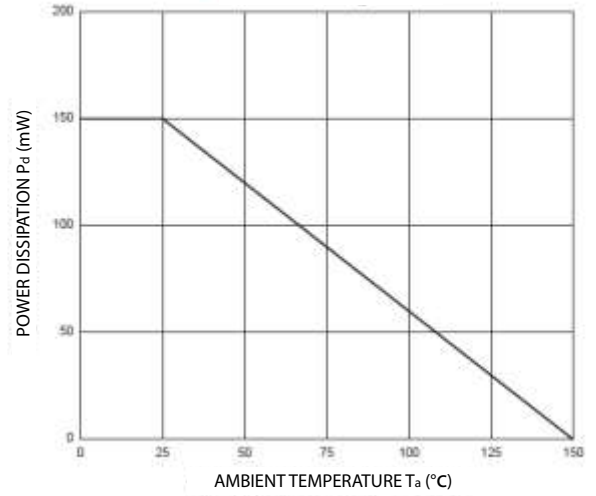
PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
1N4148WT	F2	Approximate 0.002	8000	80000	320000	7" reel

■ **CHARACTERISTICS (TYPICAL)**

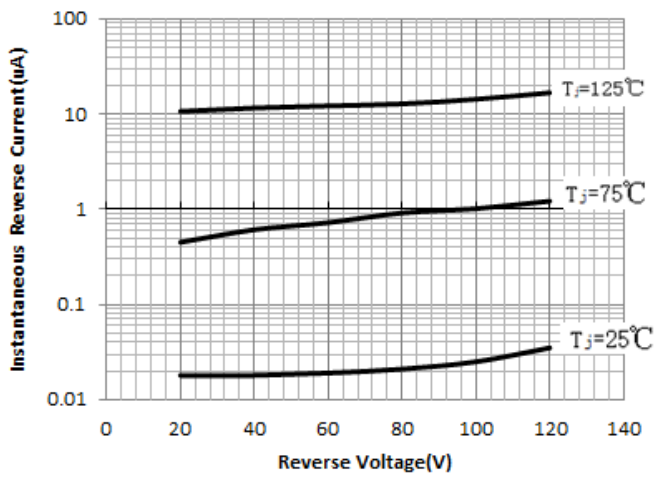
Typical Instantaneous Forward Characteristics



Power Derating Curve

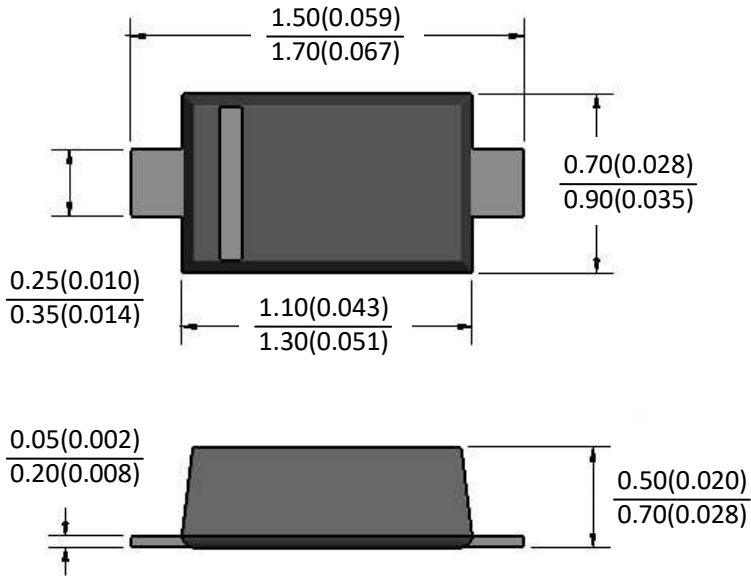


Typical Reverse Characteristics



■ **SOD-523 PACKAGE OUTLINE DIMENSIONS**

SOD-523



■ **SOD-523 SOLDERING FOOTPRINT**

