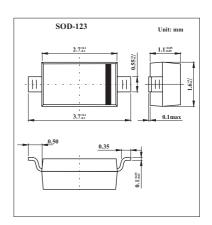
SMD Type Diodes

SMALL SIGNAL DIODES 1N4151W

Features

- Silicon Epitaxial Planar Diode
- Fast switching diods.
- This diods is also available in other case styles including: the SOD-123 case with the type designation 1N4151W and the Mini-MELF case with the type disignation LL4151.



■ Absolute Maximum Ratings Ta = 25 °C

Paramater	Symbol	Value	Unit
Reverse voktage	VR	50	V
Peak reverse voktage	Vrm	75	V
Rectified current (Average)			
Half wave rectification with resist.load	lo	150 ⁽¹⁾	mΑ
at Tamb = 25 $^{\circ}$ C and f \geqslant 50Hz			
Surge forward current at t < 1 s and T_j = 25 $^{\circ}$ C	IFSM	500	m A
Power dissipation at Tamb = 25 $^{\circ}$ C	Ptot	410 ⁽¹⁾	mW
Junction temperature	Tj	150	$^{\circ}$ C
Storage temperature range	Ts	-65 to+150	$^{\circ}$

NOTES::

(1) Valid provided that electrodes are kept at ambient temperature

SMD Type Diodes

SMALL SIGNAL DIODES 1N4151W

■ Electrical Characteristics Ta = 25°C

Characteristic	Symbol	Min	Тур	Max	Unit
Forward voltage at IF=50 mA	VF			1.0	V
Leakage current					
at VR = 50 V	IR			50	nA
at VR = 20 V, Tj = 150 $^{\circ}$ C	lr			50	μА
Reverse breakdown voltage	V(BR)R	75			V
Tested with 5 μ A pulses					V
Capacitance	Ctot			2	pF
at V _F = V _R = 0 V					
Reverse recovery time					
from IF = 10 mA through IR = 10 mA, to IR = 1 mA	trr			4	ns
from IF = 10 mA to IR = 1 mA, VR = 6 V, RL = 100 Ω	trr			2	ns
Thermal Resistance Junction to Ambient Air	RthJA			450 ⁽¹⁾	°C/W
Rectification Efficiency	ην	0.45			
at f = 100MHz, VrF =2 V					

NOTES::

(1) Valid provided that electrodes are kept at ambient tem perature (SOD-123)