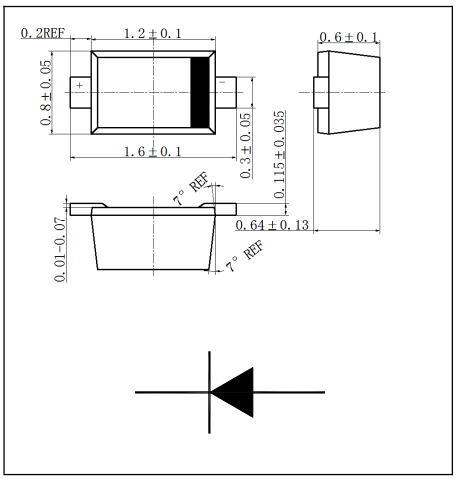
SHENZHEN LONG JING MICRO-ELECTRONICS CO., LTD.

SOD-523 Plastic-Encapsulate Diodes



1N914WT

SURFACE MOUNT FAST SWITCHING DIODE

Features

- Fast switching speed
- Ultra-small surface mount package
- For general purpose switching applications

Maximum Ratings (T_a=25°C unless otherwise noted)

Symbol	Parameter		Value	Unit
V_{RRM}	Repetitive peak reverse voltage		100	V
$I_{F(AV)}$	Average Rectified Output Current		200	mA
I_{FSM}	Peak Forward Surge Current	Pulse Width = 1 s Pulse Width = 1 μs	0.5 1	A
P_{tot}	Power Dissipation		150	mW
$R_{\Theta JA}$	Thermal Resistance Junction to Ambient		833	°C/W
T_{STG}	Storage temperature		-55~+150	°C
T_j	Junction Temperature		150	°C

Electrical Characteristics (T_a=25°C unless otherwise specified)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
I_R	Reverse current	V_R = 20V V_R = 75V			25 5	nA μA
$V_{(BR)}$	Reverse breakdown voltage	I_R= 5μA I_R= 100μA	75 100			
V_F	Forward voltage	I_F = 10mA			1	V
C_{TOT}	Diode capacitance	V_R = 0V, f = 1MHz			4	pF
trr	Reverse Recovery Time	I_{rr} =0.1XI_R, I_F= I_R =10mA, R_L=100Ω			4	ns

Typical Characteristics

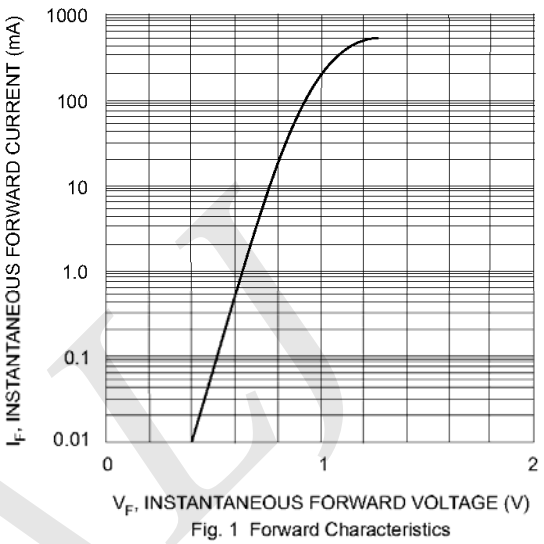


Fig. 1 Forward Characteristics

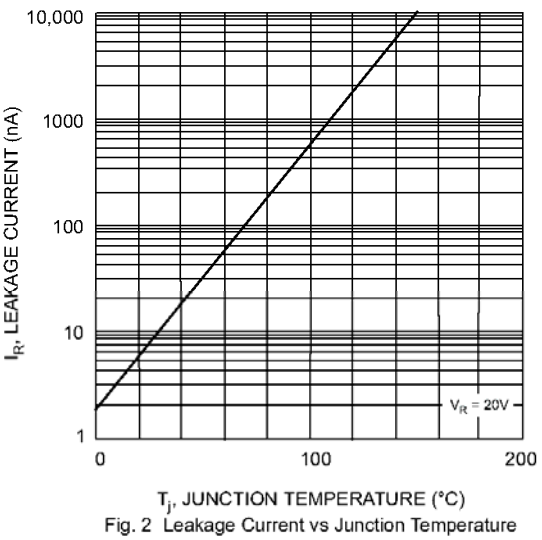


Fig. 2 Leakage Current vs Junction Temperature