WSD551H

Surface Mount Schottky Barrier Diodes

SMALL SIGNAL
SCHOTTKY DIODES
500m AMPERES
30 VOLTS

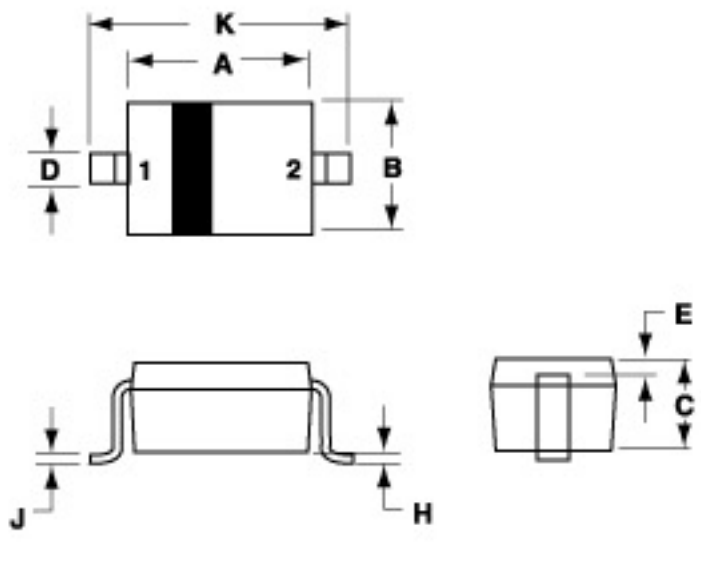
Features:
*Extremely Fast Switching Speed
*Low Forward Voltage
*Very Small Conduction Losses
*Schottky Barrier Diodes Encapsulated in a SOD-323 Package

Description:
These schottky barrier diodes are designed for high speed switching applications circuit protection, and voltage clamping, Extremely low forward voltage reduces conduction loss, Miniature surface mount package is excellent for hand held and portable applications where space is limited.

SOD-323

SOD-323 Outline Dimensions

Unit:mm



Dim	MILLMETERS Min	Max
A	1.60	1.80
B	1.15	1.35
C	0.80	1.00
D	0.25	0.40
E	0.15REF	
H	0.00	0.10
J	0.089	0.377
K	2.30	2.70

PIN 1.CATHODE
2.ANODE

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

Characteristic	Symbol	WSD551H	Unit
Reverse Voltage	V_R	30	Volts
Average Rectifier Forward Current	$I_{F(AV)}$	500	mA
Peak Forward Surge Current (1)	I_{FSM}	2.0	A
Operating Junction Temperature Range	T_J	-40 to +125	°C
Storage Temperature Range	T_{stg}		

Electrical Characteristics (T_A=25°C Unless otherwise noted)

Characteristic	Symbol	Min	Max	Unit
Reverse Breakdown Voltage (I_R=100μA)	$V_{(BR)R}$	30		Volts
Forward Voltage I_F=100mA I_F=500mA	V_F		 0.36 0.47	Volts
Reverse Leakage V_R=20V	I_R		100	μAdc

NOTE:
1. 60HZ for 1 ϕ

Device Marking

Item	Marking	Eqivalent Circuit diagram
WSD551H	D, 2V	1 o—▶|— o 2

WSD551H

Electrical characteristic curves (Ta=25°C)

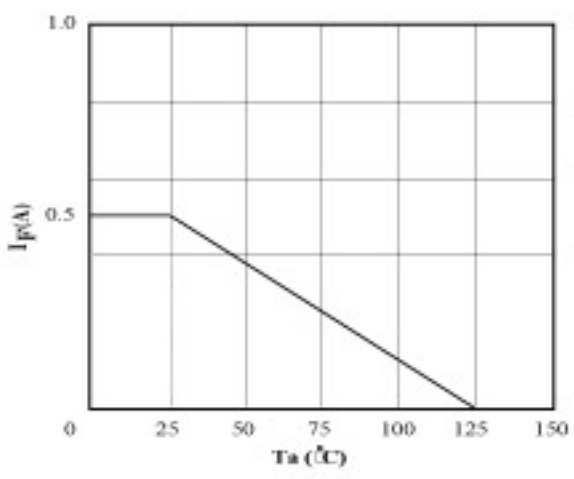


Fig.4 Derating curve

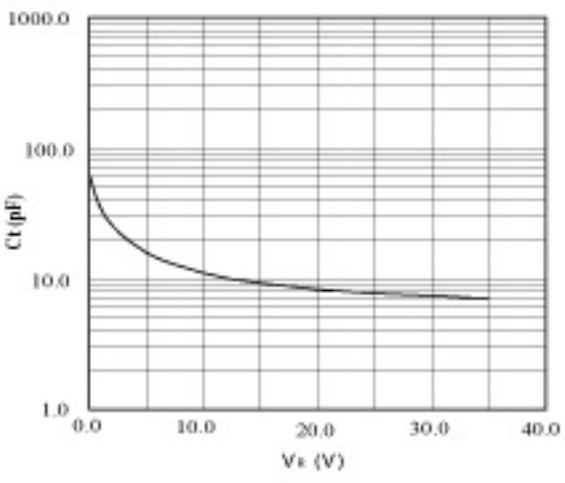


Fig.3 Capacitance between terminals characteristics

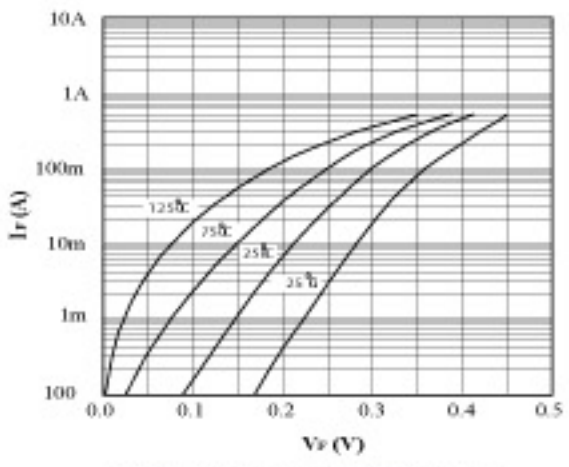


Fig.1 Forward characteristics

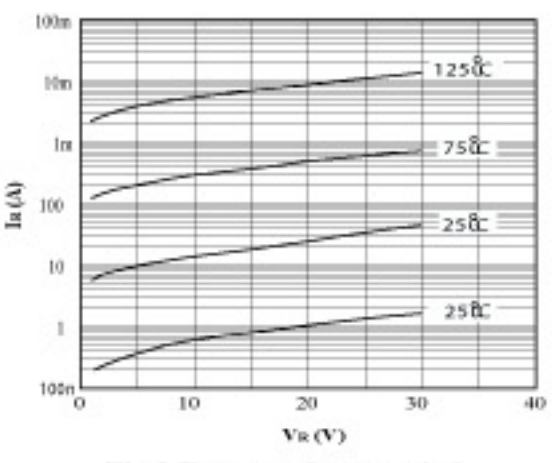


Fig.2 Reverse characteristics