

Surface Mount Schottky Barrier Diodes

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.

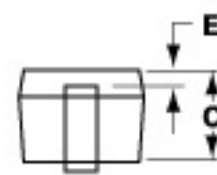
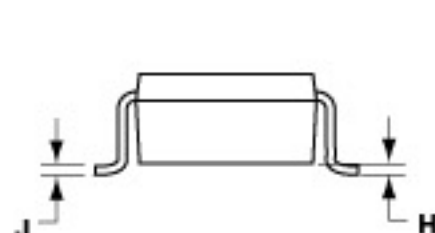
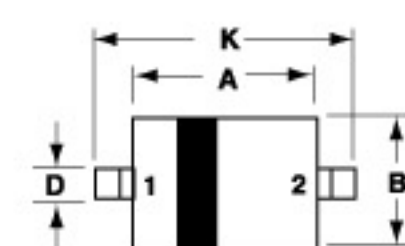
SMALL SIGNAL
SCHOTTKY DIODES
500m AMPERES
30 VOLTS



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

WSD551H



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

Characteristic	Symbol	WSD551H	Unit
Reverse Voltage	VR	30	Volts
Average Rectifier Forward Current	IF(AV)	500	mA
Peak Forward Surge Current ⁽¹⁾	IFSM	2.0	A
Operating Junction Temperature Range	TJ	-40 to +125	°C
Storage Temperature Range	Tstg		

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

Characteristic	Symbol	Min	Max	Unit
Reverse Breakdown Voltage (IR=100µA)	V(BR)R	30		Volts
Forward Voltage IF=100mA IF=500mA	VF		0.36 0.47	Volts
Reverse Leakage VR=20V	IR		100	µA _{dc}

NOTE:
1. 60HZ for 1 µs

Device Marking

Item	Marking	Equivalent Circuit diagram
WSD551H	D, 2V	1 — — 2

WSD551H



Electrical characteristic curves (Ta=25°C)

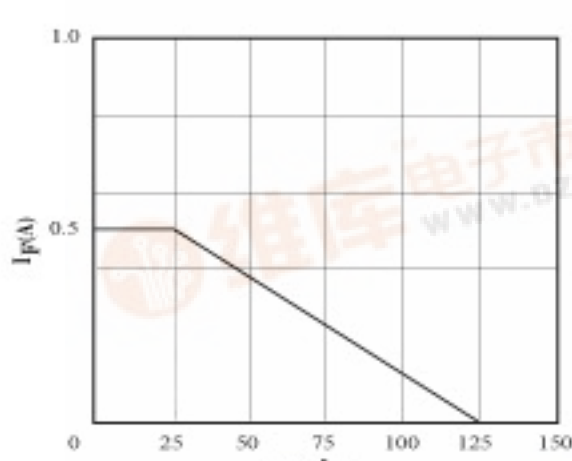


Fig.4 Derating curve

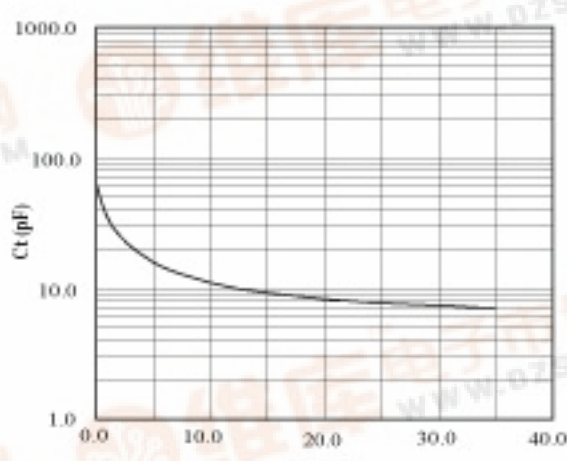


Fig.3 Capacitance between terminals characteristics

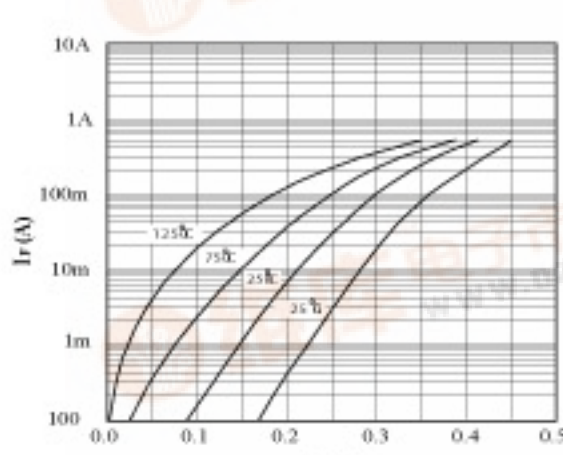


Fig.1 Forward characteristics

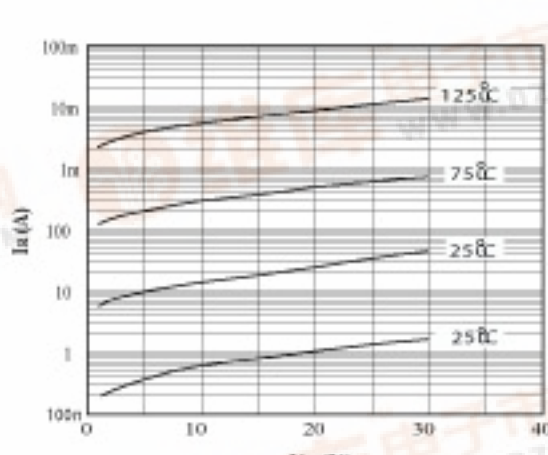


Fig.2 Reverse characteristics