

## Surface Mount Schottky Barrier Diode

**(Pb)** Lead(Pb)-Free

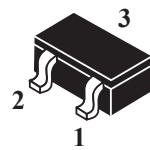
### Features:

- \*Low Turn-on Voltage
- \*Fast Switching
- \*PN Junction Guard Ring for Transient and ESD Protection

### MECHANICAL DATA

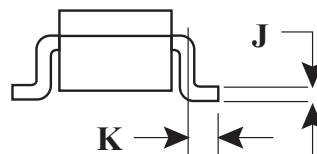
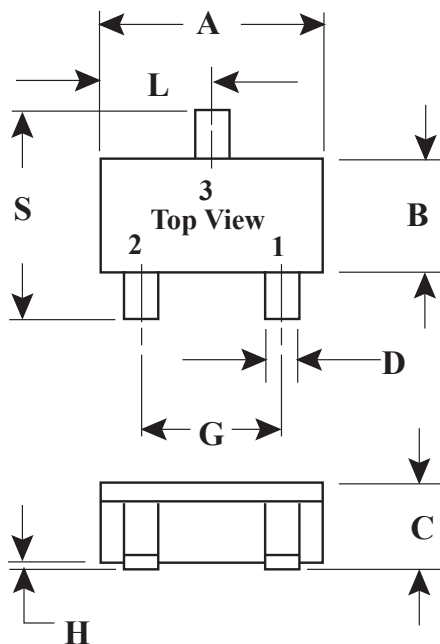
- \*Case : SOT-346, Molded Plastic
- \*Terminals : Solderable per MIL-STD-202, Method 208
- \*Polarity : See Diagrams Below
- \*Weight : 0.008 grams (approx.)
- \*Mounting Position : Any

**SCHOTTKY BARRIER  
RECTIFIERS  
0.5AMPERES  
20-40VOLTS**



**SC-59**

## SC-59 Outline Dimension



SC-59		
Dim	Min	Max
A	2.70	3.10
B	1.30	1.70
C	1.00	1.30
D	0.35	0.50
G	1.70	2.30
H	0.00	0.10
J	0.10	0.26
K	0.20	0.60
L	1.25	1.65
S	2.25	3.00
All Dimension in mm		

## Maximum Ratings and Electrical Characteristics



Rating 25°C Ambient Temperature Unless Otherwise Specified.

Single Phase Half Wave, 60Hz , Resistive or Inductive Load.

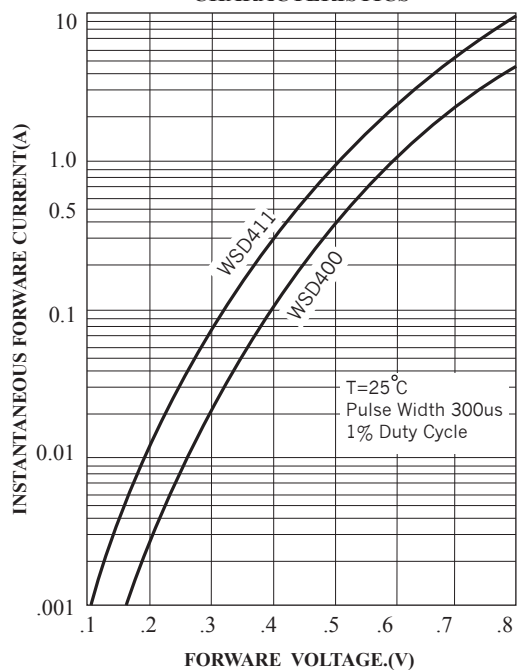
For Capacitive Load, Derate Current by 20%.

Type Number	WSD411	WSD400	Unit
Maximum Recurrent Peak Reverse Voltage	20	40	V
Maximum RMS Voltage	14	28	V
Maximum DC Blocking Voltage	20	40	V
Maximum Average Forward Rectified Current	0.5		A
Peak Forward Surge Current, 8.3 ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)	3.00		A
Maximum Instantaneous Forward Voltage at 0.5A	0.45	0.53	V
Maximum DC Reverse Current Ta=25°C	0.1		mA
At Rated DC Blocking Voltage Ta=100°C	4.0		mA
Operating Temperature Range Tj	-25.....+ 125		°C
Storage Temperature Range TSTG	-50.....+ 125		°C

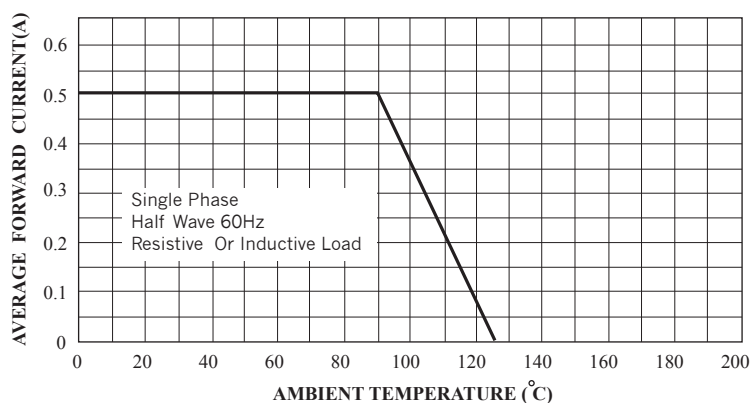
## Device Marking

Item	Marking	Equivalent Circuitdiagram
WSD411	05T	
WSD400	05F	

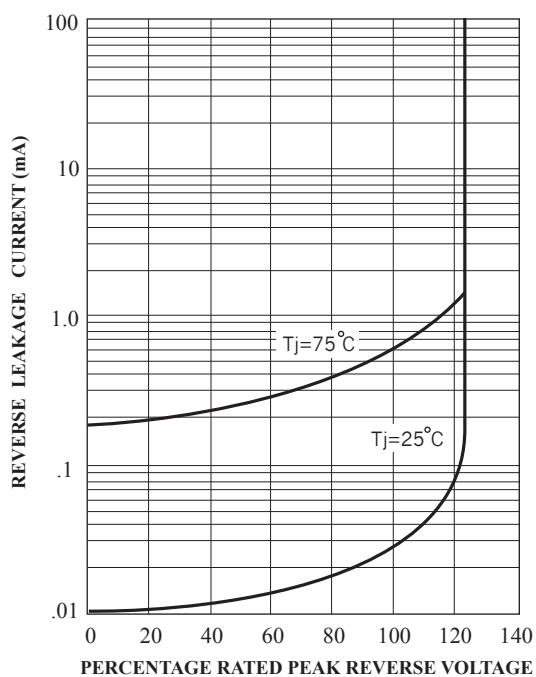
**FIG.1-TYPICAL FORWARD CHARACTERISTICS**



**FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE**



**FIG.3-TYPICAL REVERSE CHARACTERISTICS**



**FIG.4-TYPICAL JUNCTION CAPACITANCE**

