

### Surface Mount Schottky Barrier Diodes

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

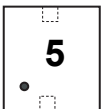
#### Feature:

- \* Small surface mounting type
- \* Low reverse current and low forward voltage
- \* High reliability

#### Application:

- \* High speed switching For Detection
- \* For portable equipment:(i.e. Mobile phone,MP3, MD,CD-ROM,
- \* DVD-ROM, Note book PC, etc.)

#### MARKING: 5



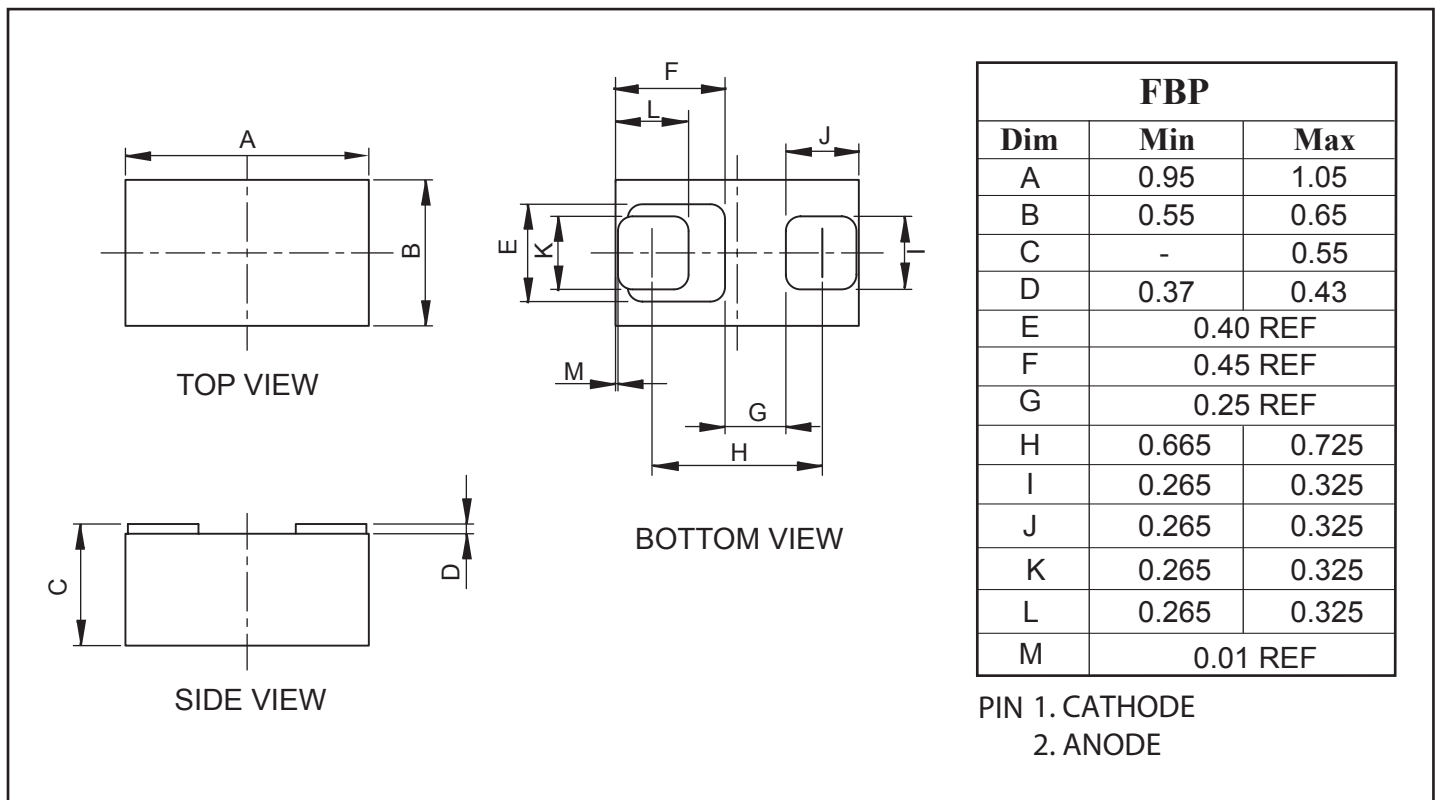
**SMALL SIGNAL  
SCHOTTKY DIODES  
30m AMPERES  
40 VOLTS**



**1  
FBP**

### FBP Outline Dimensions

Unit:mm



## Maximum Ratings ( $T_A=25^{\circ}\text{C}$ Unless otherwise noted)

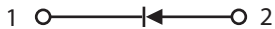
Characteristic	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	40	V
DC Reverse Voltage	$V_R$	30	V
Average Rectifier Forward Current	$I_O$	30	mA
Peak Forward Surge Current <sup>(1)</sup>	$I_{FSM}$	150	mA
Operation Junction Temperature Range	$T_J$	125	$^{\circ}\text{C}$
Storage Temperature Range	$T_{stg}$	-40 to +125	$^{\circ}\text{C}$

## Electrical Characteristics ( $T_A=25^{\circ}\text{C}$ Unless otherwise noted)

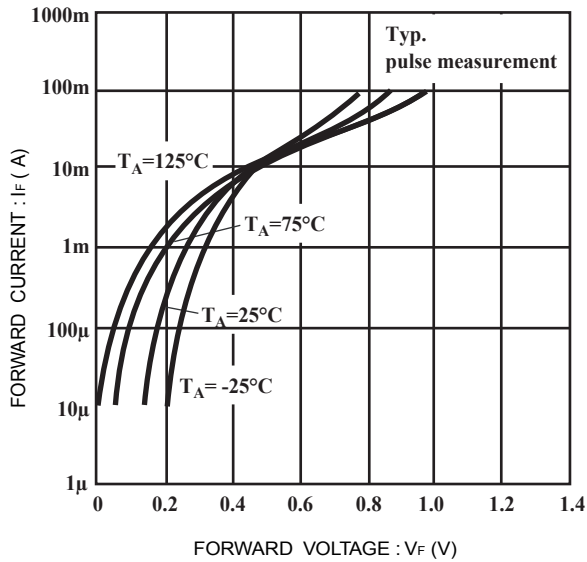
Characteristic	Symbol	Min	Typ	Max	Unit
Forward Voltage $I_F=1.0\text{mA}$	$V_F$	-	-	0.37	V
Reverse Leakage $V_R=30\text{V}$	$I_R$	-	-	0.5	$\mu\text{A}$
Capacitance Between Terminals $V_R=1.0\text{V}$ , $f=1\text{MHz}$	$C_T$	-	2.0	-	pF

NOTE: 1.60HZ for 1 

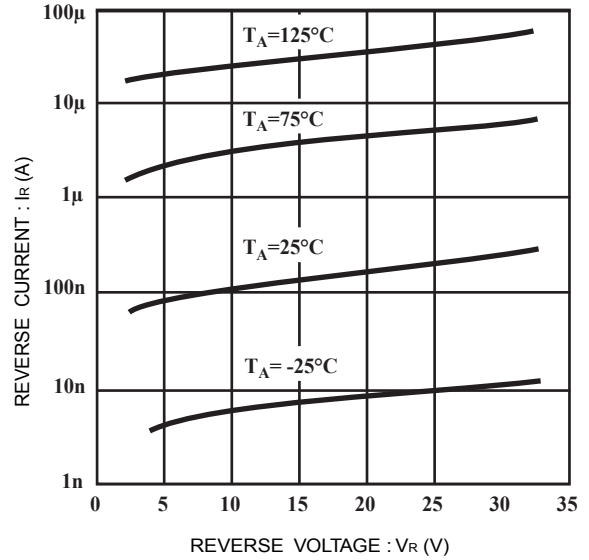
## Device Marking

Item	Marking	Equivalent Circuit diagram
WSD751B	5	

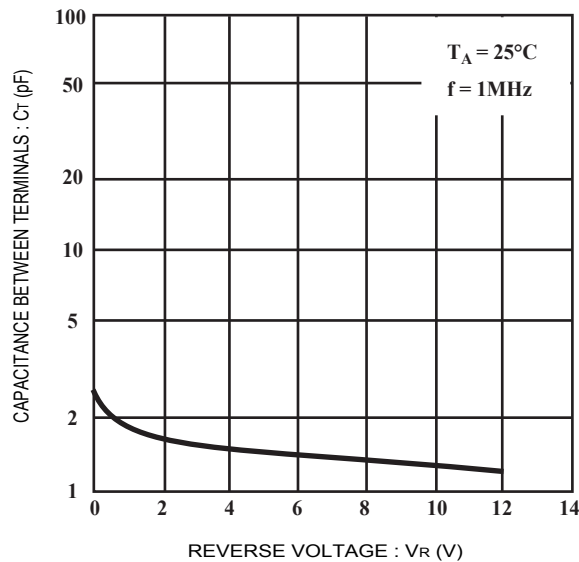
## Electrical Characteristic Curves ( $T_A=25^\circ\text{C}$ )



**FIG.1 Forward Characteristics**



**FIG.2 Reverse Characteristics**



**FIG.3 Capacitance Between Terminals Characteristics**