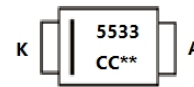


**WSB5533L**
**1A Schottky Barrier Diode**
[Http://www.sh-willsemi.com](http://www.sh-willsemi.com)
**Features**

- low Leakage Current
- Low forward voltage drop
- SOD-123T package


**SOD-123T**

**Circuit**

**Marking**
**Applications**

- Switching circuit
- Middle current rectification

**Absolute maximum ratings**

Parameter	Symbol	Value	Unit
Reverse voltage (repetitive peak)	$V_{RRM}$	60	V
Reverse voltage (DC)	$V_R$	60	V
Average rectified forward current (DC)	$I_O$	1	A
Forward Peak Surge Current <sup>(1)</sup>	$I_{FSM}$	20	A
Junction temperature	$T_J$	-55 ~ 150	°C
Operating temperature	$T_{opr}$	-55 ~ 150	°C
Storage temperature	$T_{stg}$	-55 ~ 150	°C

**Electronics characteristics ( $T_A=25^\circ\text{C}$ )**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward voltage <sup>(2)</sup>	$V_F$	$I_F=1\text{A}$		0.44	0.51	V
Reverse current	$I_R$	$V_R=60\text{V}$			0.1	mA
Junction capacitance	$C_J$	$V_R=4\text{V}, F=1\text{MHz}$		68		pF
Thermal resistance <sup>(3)</sup>	$R_{\theta(J-A)}$	Junction to Ambient		125		K/W

**Order Informations**

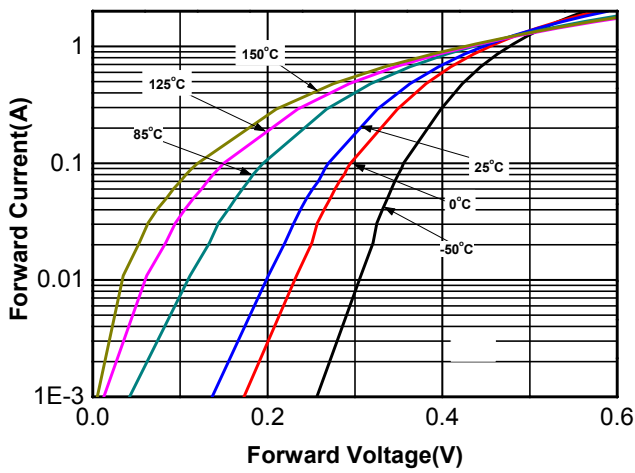
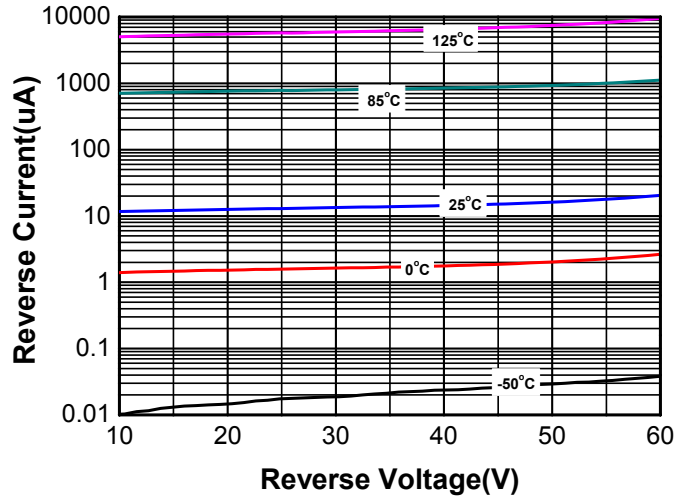
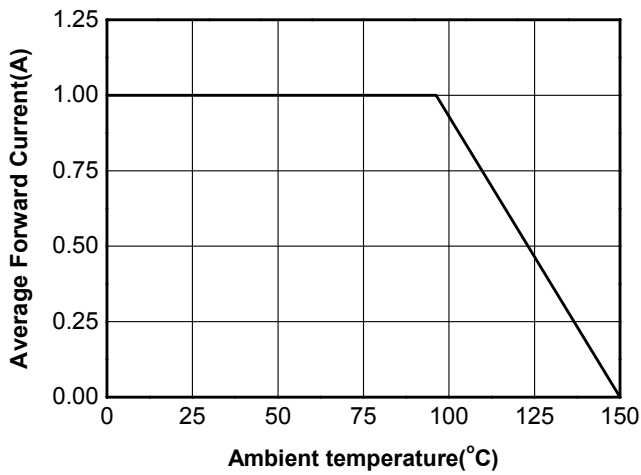
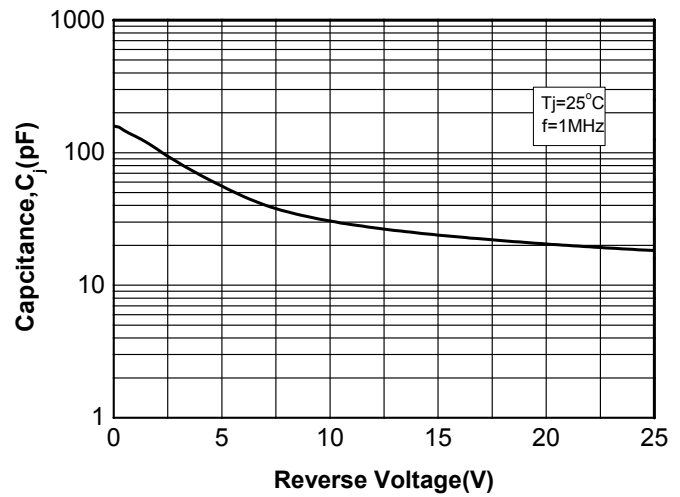
Device	Package	Marking	Shipping
WSB5533L-2/TR	SOD-123T	CC** <sup>(4)</sup>	10K/Reel&Tape

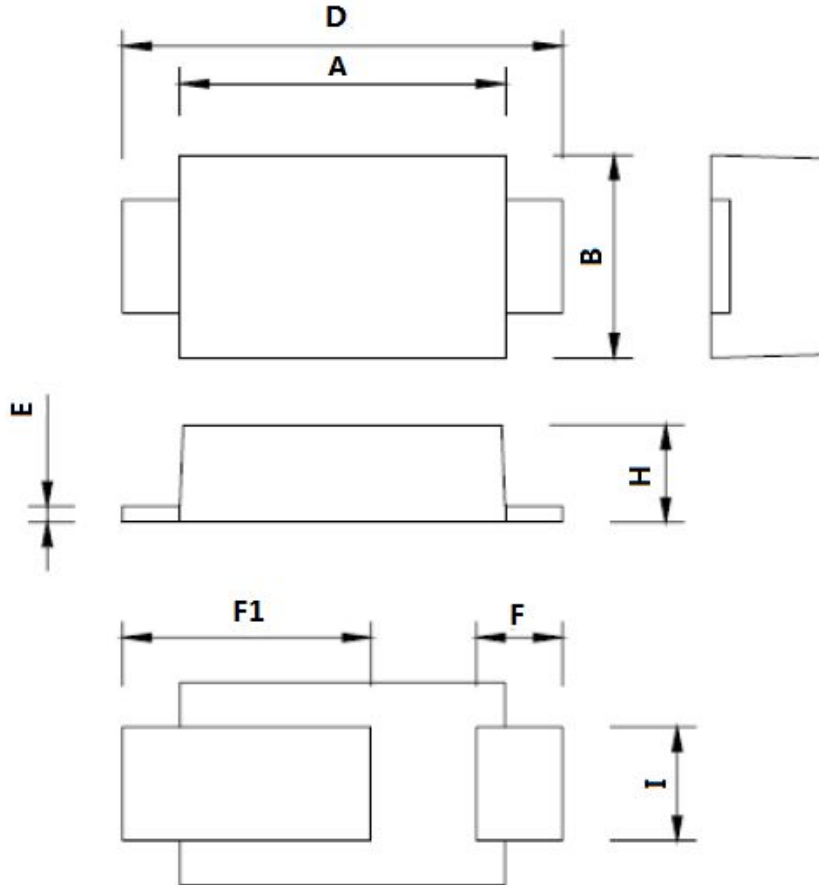
Note1: Pulse width=8.3ms, single pulse;

Note2: Single Pulse, test  $T_p=380\mu\text{s}$ ;

Note3: Polyimide PCB, 2oz. Copper. Cathode pad dimensions 2.4mm x 1.4mm. Anode pad dimensions 1.0mm x 1.4mm ;

Note4: \*\* =Month code (AA~Zz); CC =Special code;

**Typical characteristics (Ta=25°C, unless otherwise noted)**

**Fig.1 Forward voltage vs. Forward current**

**Fig.2 Reverse current vs. Reverse voltage**

**Fig.3 Maximum Forward Current Derating Curve**

**Fig.4 Junction capacitance vs. Reverse voltage**

**Package outline dimensions**
**SOD-123T**


Symbol	Dimensions In Millimeters	
	Min.	Max.
A	2.60	3.00
B	1.70	2.10
D	3.45	3.95
E	0.10	0.30
F	0.30	0.90
F1	1.80	2.40
H	1.05	1.35
I	0.85	1.15