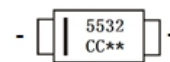


**WSB5532L**
**1A Schottky Barrier Diode**
[Http://www.sh-willsemi.com](http://www.sh-willsemi.com)
**Features**

- 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)	$V_{RRM}$	40	V
Reverse voltage (DC)	$V_R$	40	V
Average rectified forward current (DC)	$I_O$	1	A
Forward Peak Surge Current <sup>(1)</sup>	$I_{FSM}$	50	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<sub>A</sub>=25°C)**

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward voltage <sup>(2)</sup>	$V_F$	$I_F=1A$		0.41	0.46	V
		$I_F=2A$		0.47	0.53	V
Reverse current	$I_R$	$V_R=40V$			0.1	mA
Junction capacitance	$C_J$	$V_R=4V, F=1MHz$		156		pF
Thermal resistance <sup>(3)</sup>	$R_{\theta(J-A)}$	Junction to Ambient		118		K/W

**Order Informations**

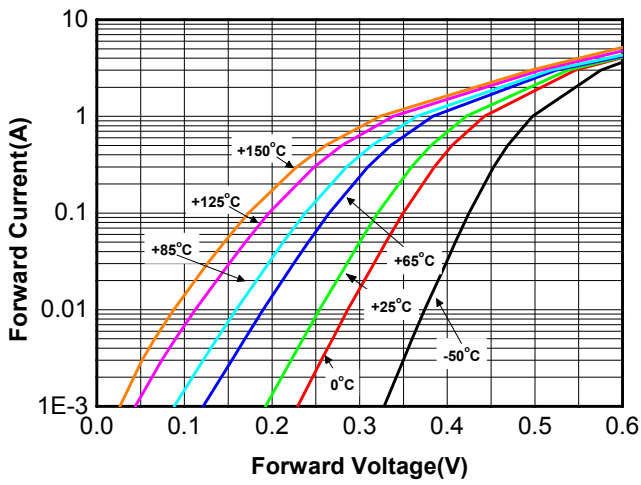
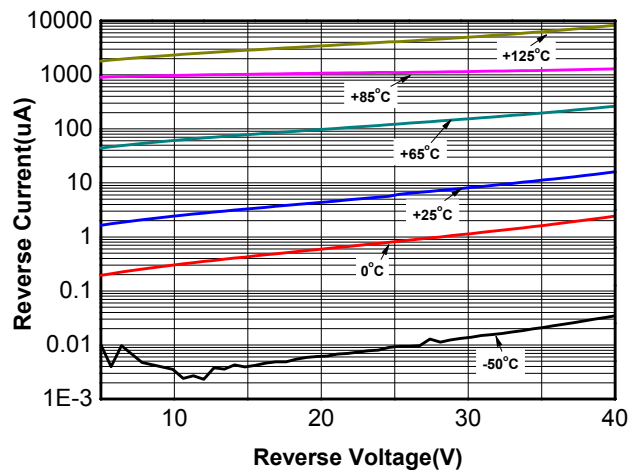
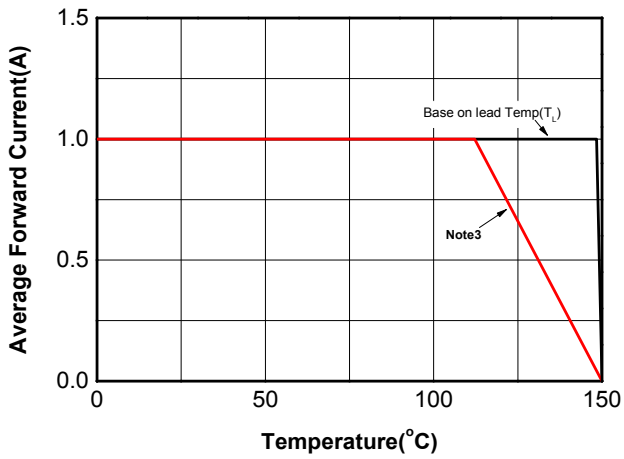
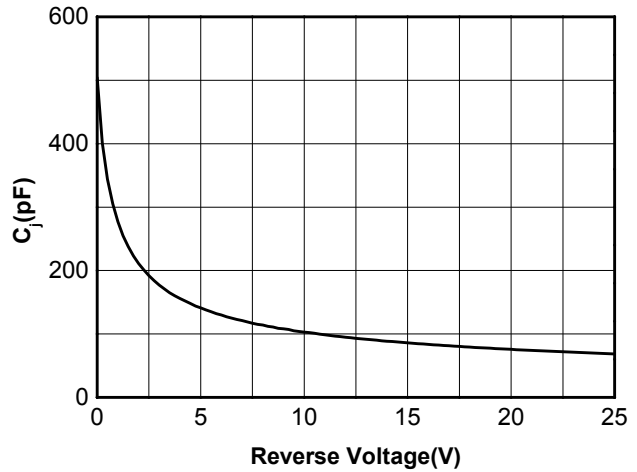
Device	Package	Marking	Shipping
WSB5532L-2/TR	SOD-123T	CC** <sup>(4)</sup>	10K/Reel&Tape

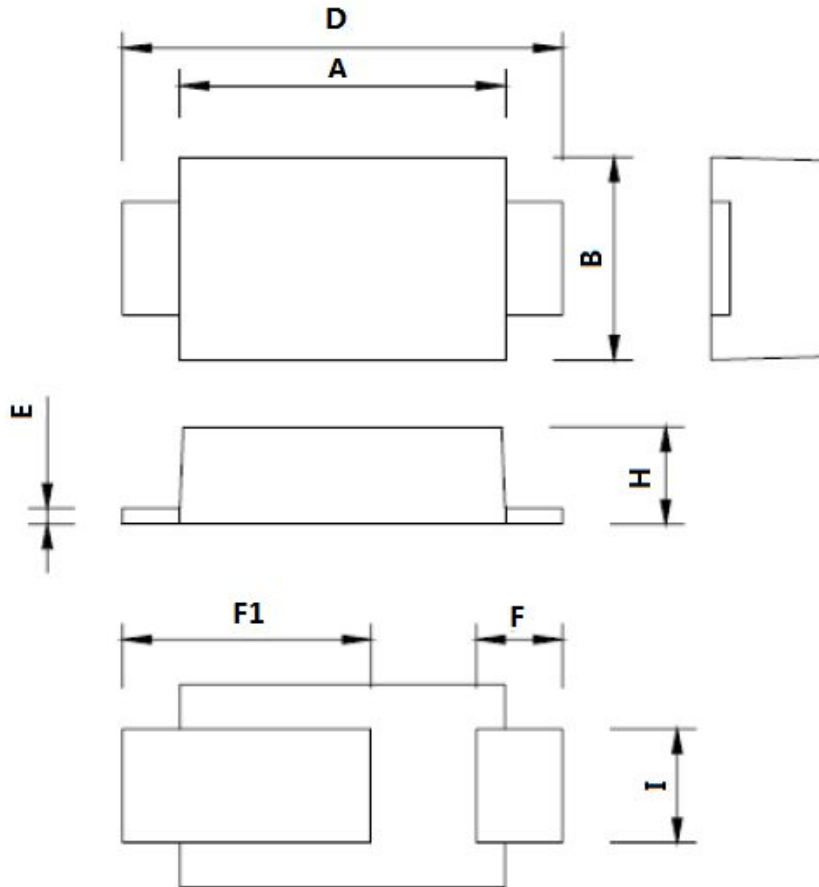
**Note1:** Pulse width=8.3ms, single pulse;

**Note2:** Single Pulse, test  $T_p=380us$ ;

**Note3:** Polymide 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