

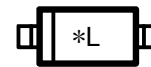
WSB5508L
[Http://www.willsemi.com](http://www.willsemi.com)
Middle Power Schottky Barrier Diode
Features

- 1A Average rectified forward current
- Low forward voltage
- Low leakage current
- SOD-123 package


SOD-123

Circuit
Applications

- Switching circuit
- Middle current rectification


Marking
Absolute maximum ratings

Parameter	Symbol	Value	Unit
Reverse voltage (repetitive peak)	V_{RM}	40	V
Reverse voltage (DC)	V_R	40	V
Average rectified forward current	I_O	1	A
Peak forward current ⁽¹⁾	I_{PK}	25	A
Operating Junction Temperature	Topr	-55 ~ 150	°C
Storage temperature	Tstg	-55 ~ 150	°C

Electronics characteristics (T_A=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward voltage	V_F	$I_F=1A$			0.57	V
Reverse current	I_R	$V_R=40V$			100	uA
Junction capacitance	C_J	$V_R=4V, F=1MHz$		105		pF
Thermal resistance	$R_{\theta JL}$	Junction to lead			120	K/W

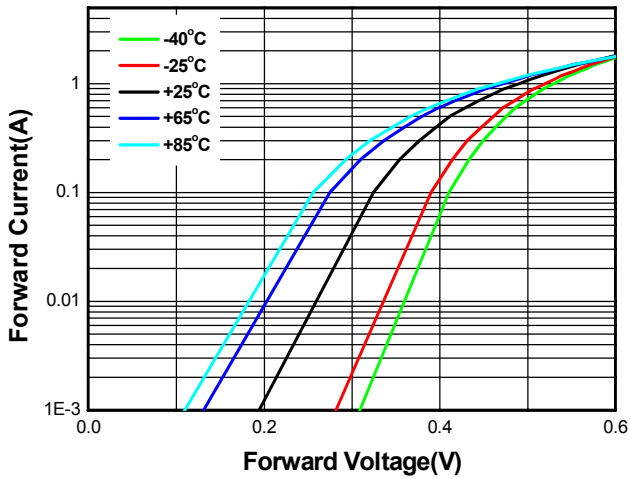
Order Informations

Device	Package	Marking	Shipping
WSB5508L-2/TR	SOD-123	*L ⁽²⁾	3000/Reel&Tape

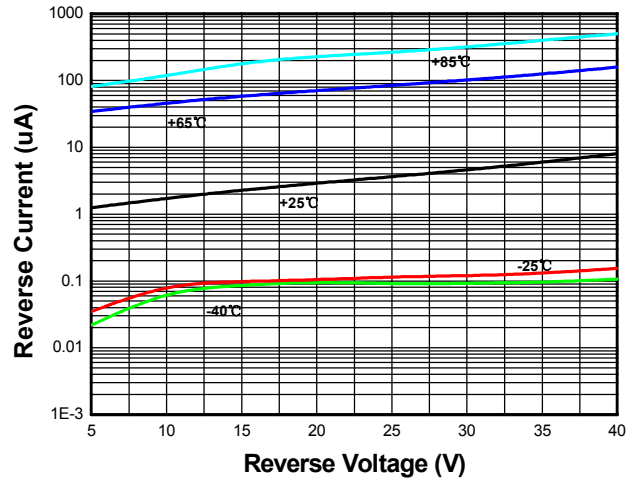
Note 1: Pulse Width=1us, Single Pulse

Note 2: * = Month code (A~Z); L = Device code

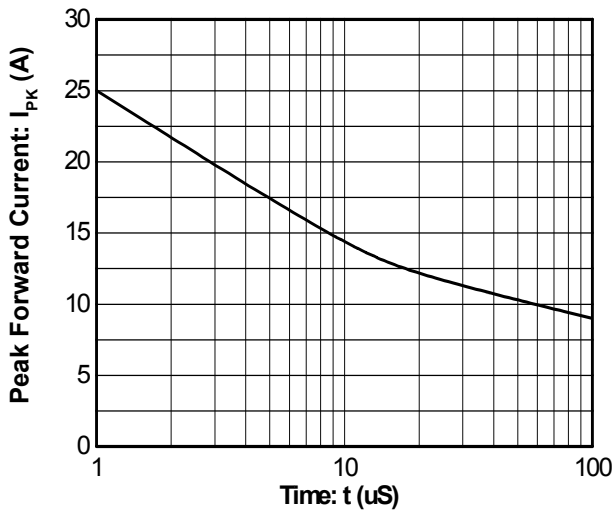
Typical characteristics (Ta=25°C, unless otherwise noted)



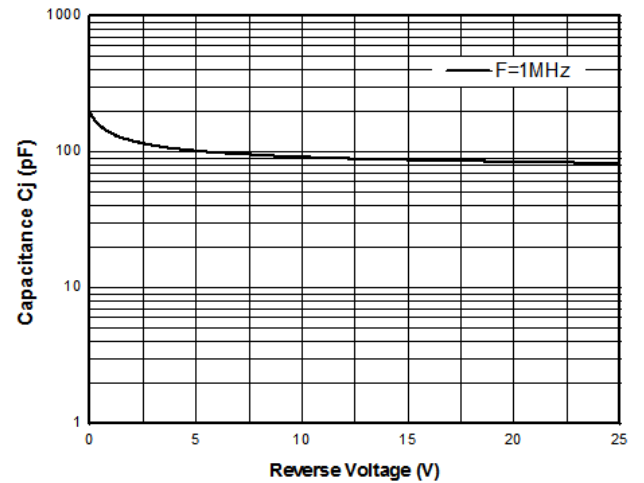
Forward voltage vs. Forward current



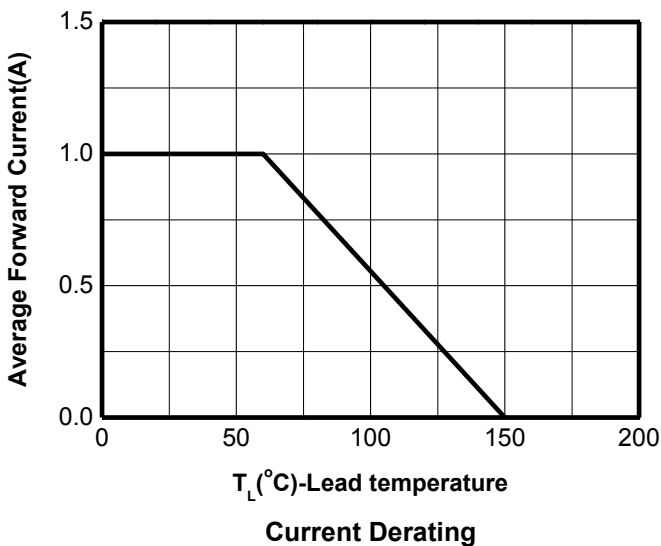
Reverse current vs. Reverse voltage



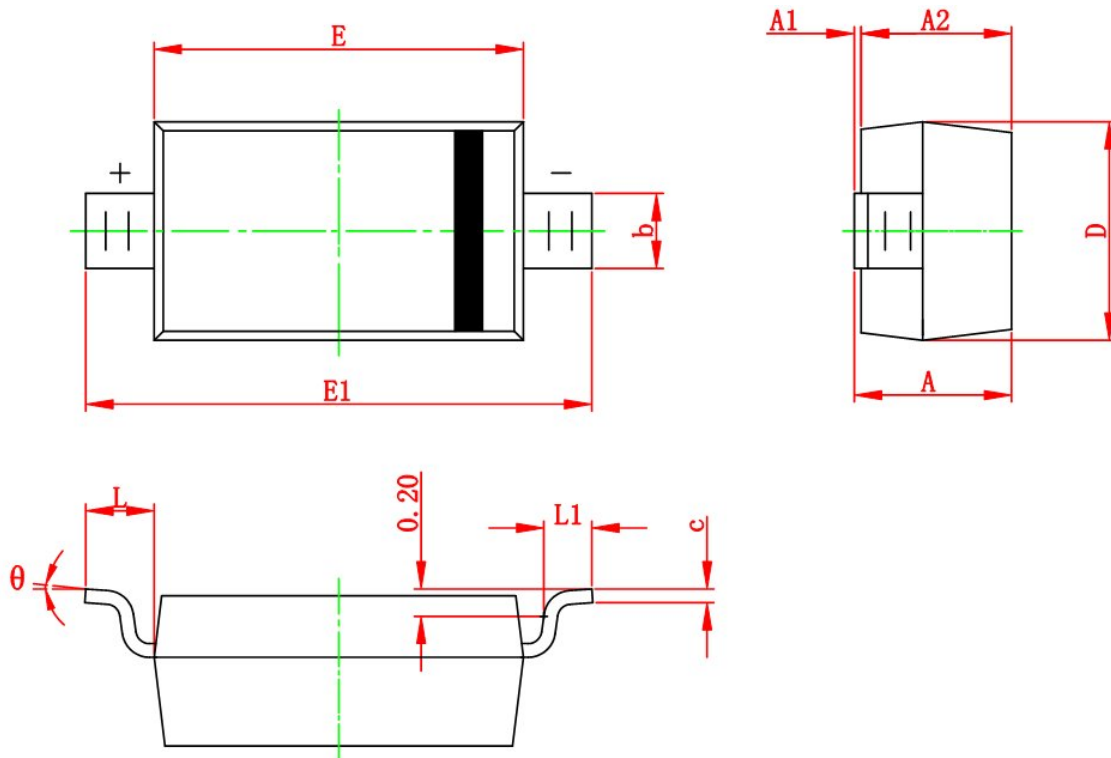
Peak pulse forward current characteristics



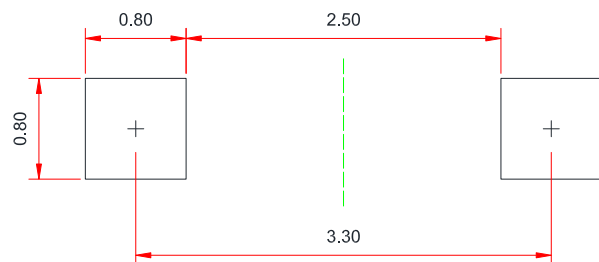
Junction capacitance vs. Reverse voltage



Current Derating

Package outline dimensions
SOD-123


Symbol	Dimensions in millimeters		Dimensions in inches	
	Min.	Max.	Min.	Max.
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.450	0.650	0.018	0.026
c	0.080	0.150	0.003	0.006
D	1.500	1.700	0.059	0.067
E	2.600	2.800	0.102	0.110
E1	3.550	3.850	0.140	0.152
L	0.500 (REF)		0.020 (REF)	
L1	0.250	0.450	0.010	0.018
θ	0°	8°	0°	8°


Land Pattern Recommendation

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