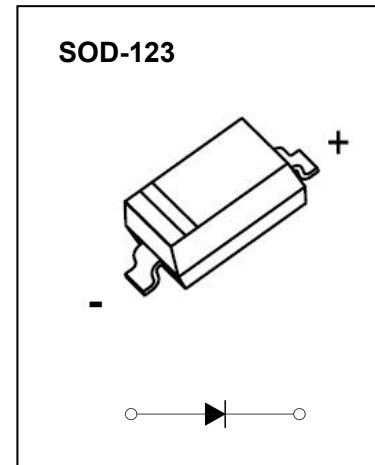


FAST SWITCHING DIODE

FEATURES

- Fast Switching Speed
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- High Conductance
- AEC-Q101 qualified (Automotive grade with suffix "Q".)
- Exsemi technology



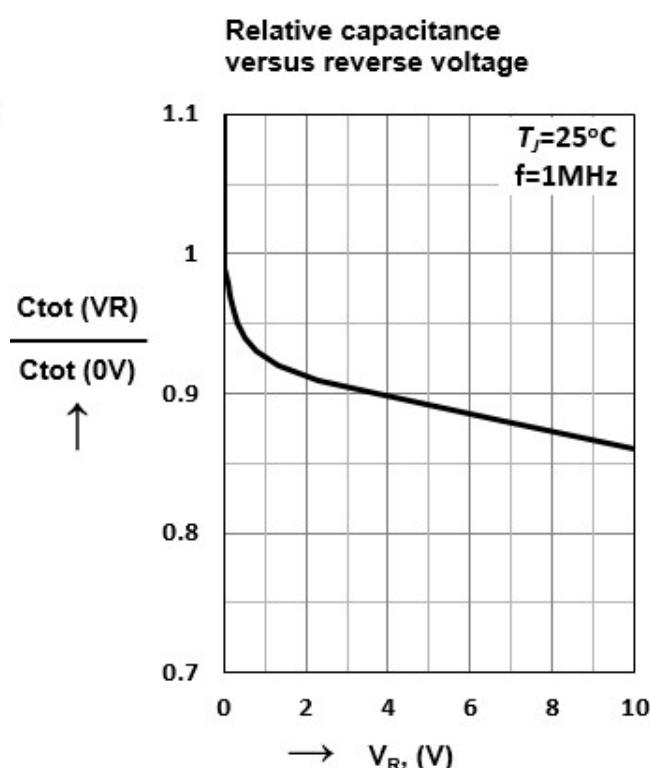
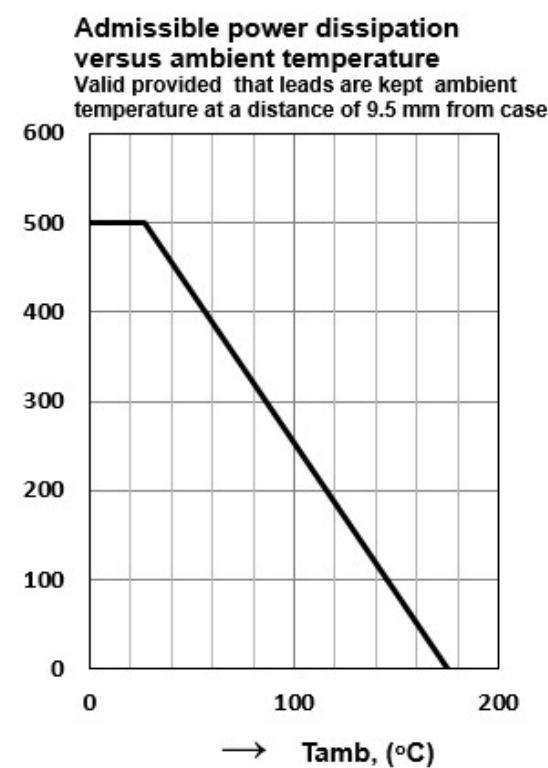
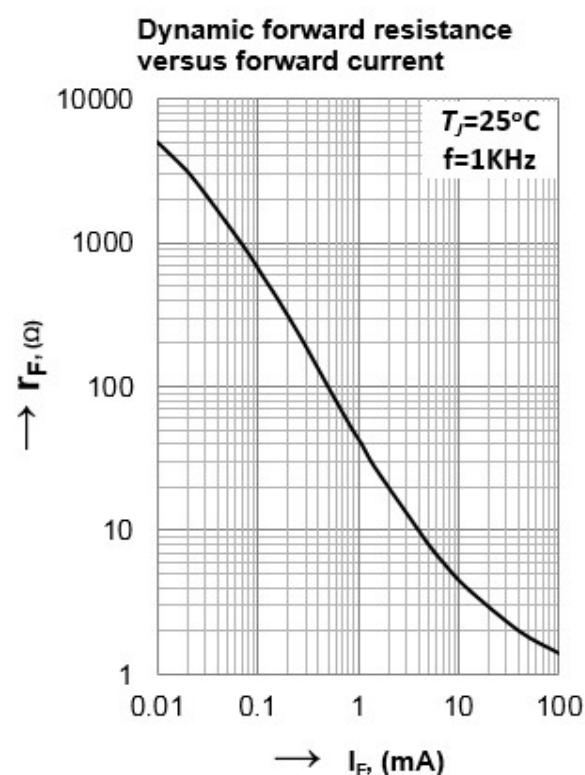
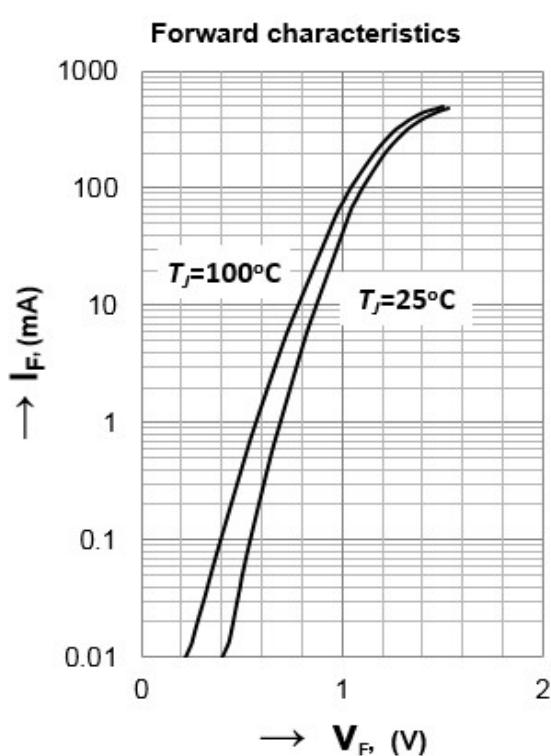
Maximum Ratings and Electrical Characteristics, Single Diode @ $T_a=25^\circ\text{C}$

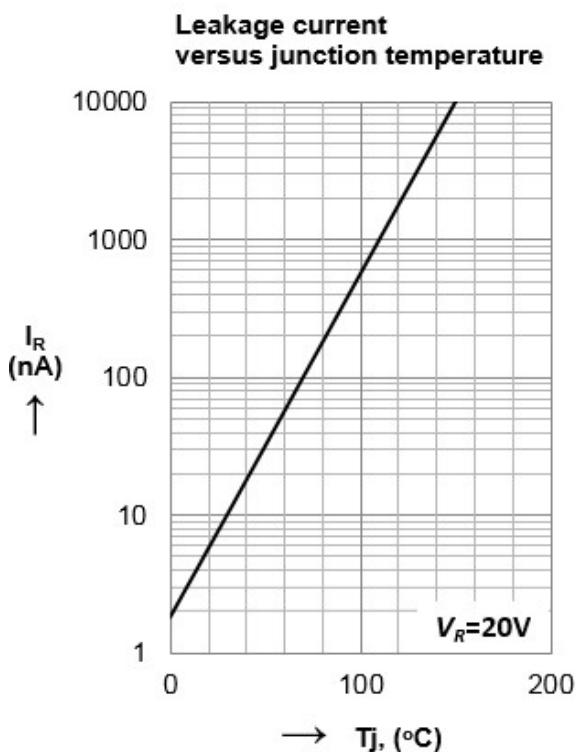
Parameter	Symbol	Value	Unit
Peak reverse voltage	V_{RM}	50	Volts
Maximum average rectified current	$I_{F(AV)}$	200	mA
Maximum power dissipation at $T_{amb}=25^\circ\text{C}$	P_{tot}	500	mW
Maximum junction temperature	T_J	175	°C

Electrical Ratings @ $T_a=25^\circ\text{C}$

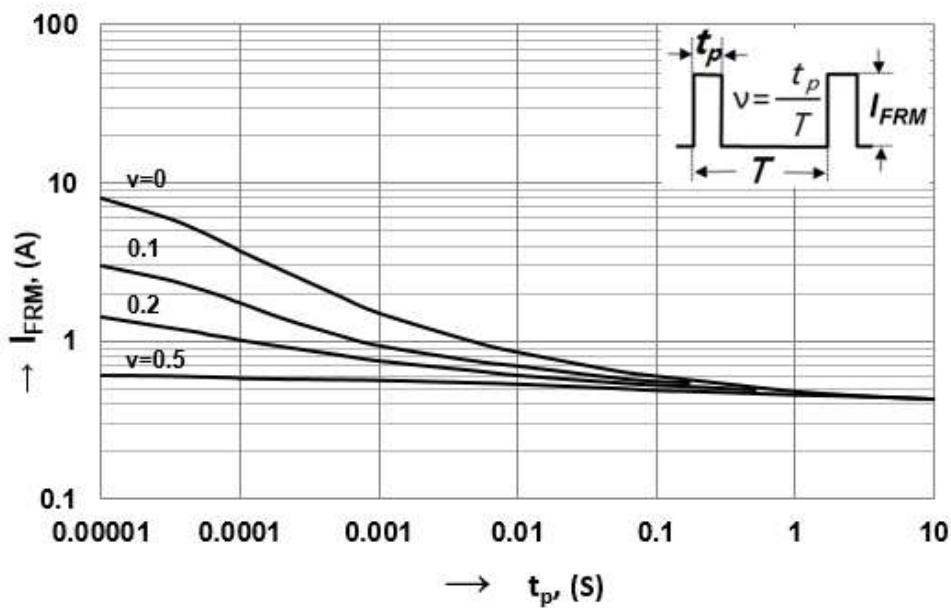
Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Forward voltage drop	V_F	$I_F=200\text{mA}$	-	-	1	Volt
Reverse current	I_R	$VR=50\text{V}$	-	-	100	uA
Reverse recovery time	t_{rr}	$I_F=I_R=10\text{mA to } 200\text{mA}$ to $0.1I_F$	-	-	4	ns

Typical Characteristics

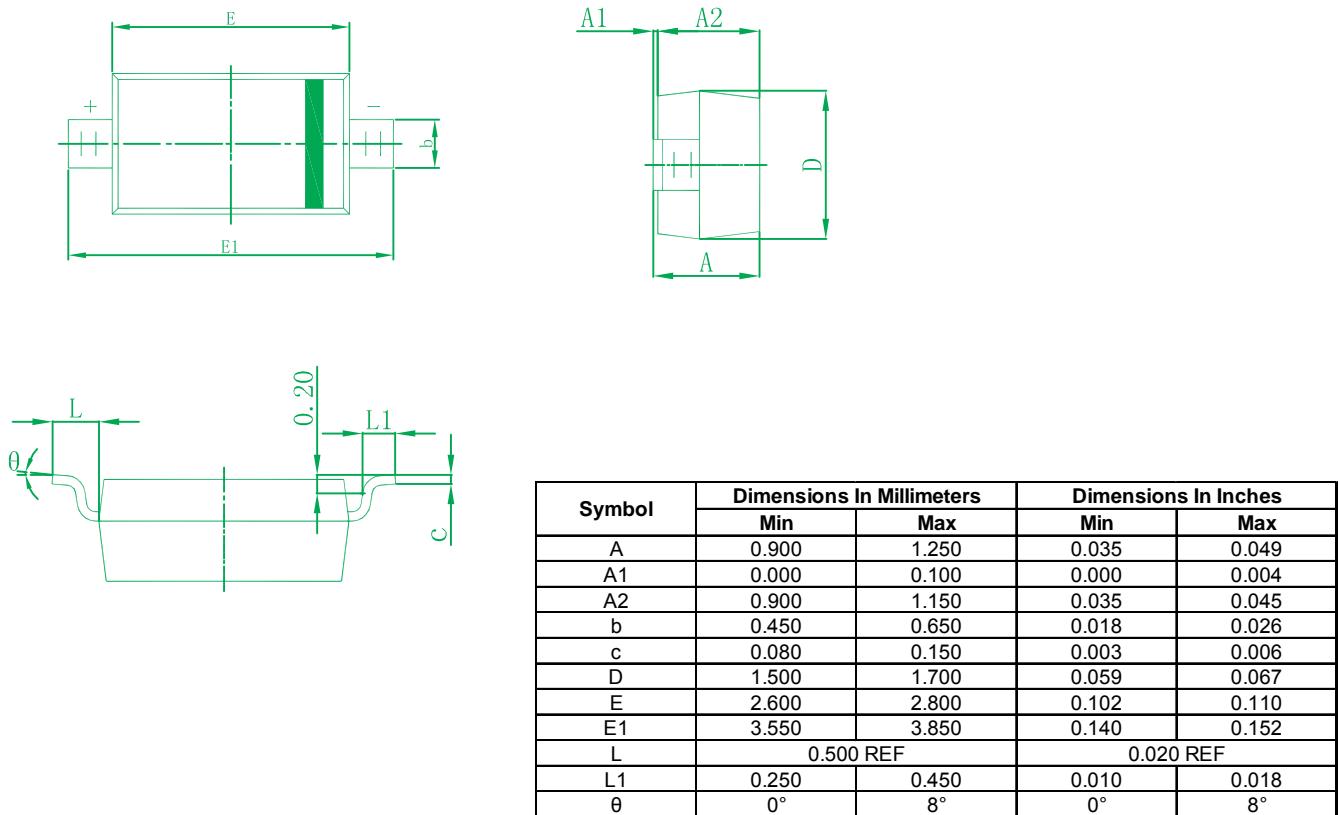




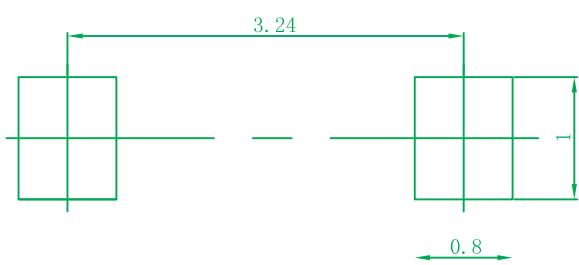
Admissible repetitive peak forward current versus pulse duration
For conditions, see footnote in table "Absolute Maximum Ratings"



SOD-123 Package Outline Dimensions



SOD-123 Suggested Pad Layout

**Note:**

1. Controlling dimension:in millimeters.
2. General tolerance: ± 0.05 mm.
3. The pad layout is for reference purposes only.

Ordering information

Device	Package	Shipping
1N4150W	SOD-123	3000/Tape&Reel(7inches)