

# 1S1586

## HIGH SPEED SWITCHING DIODE

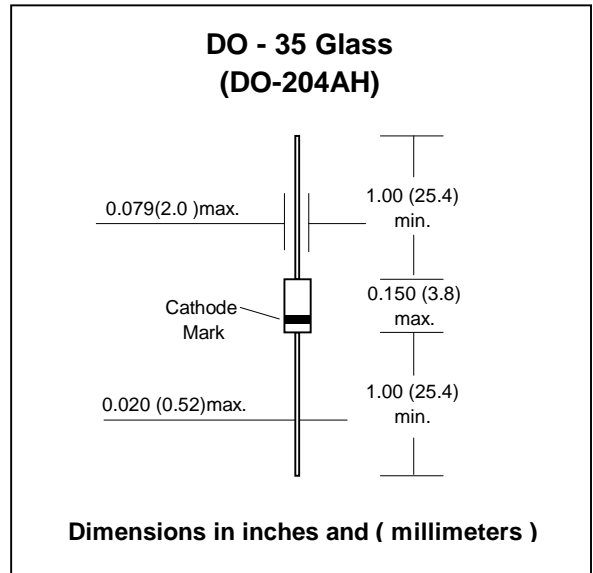
### FEATURES :

- High switching speed: max. 2 ns
- Continuous reverse voltage: max. 50 V
- Repetitive peak reverse voltage: max. 55 V
- Pb / RoHS Free

### MECHANICAL DATA :

**Case:** DO-35 Glass Case

**Weight:** approx. 0.13g



### Maximum Ratings and Thermal Characteristics (Rating at 25 °C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	55	V
Maximum Continuous Reverse Voltage	$V_{RM}$	50	V
Maximum Continuous Forward Current	$I_F$	150	mA
Maximum Forward Current	$I_{FM}$	480	mA
Maximum Power Dissipation	$P_D$	300	mW
Maximum Non-repetitive Peak Forward Current	$I_{FSM}$	0.7	A
Maximum Junction Temperature	$T_J$	175	°C
Storage Temperature Range	$T_S$	-65 to + 200	°C

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

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Reverse Current	$I_R$	$V_R = 50\text{ V}$	-	-	0.5	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F = 100\text{ mA}$	-	-	1.0	V
Diode Capacitance	$C_d$	$f = 1\text{ MHz}; V_R = 0$	-	-	2.0	pF
Reverse Recovery Time	$T_{rr}$	$I_F = 10\text{ mA to } I_R = 60\text{ mA}$ $R_L = 100\ \Omega$ ; measured at $I_R = 1\text{ mA}$	-	-	2	ns