

1S1588

HIGH SPEED SWITCHING DIODE

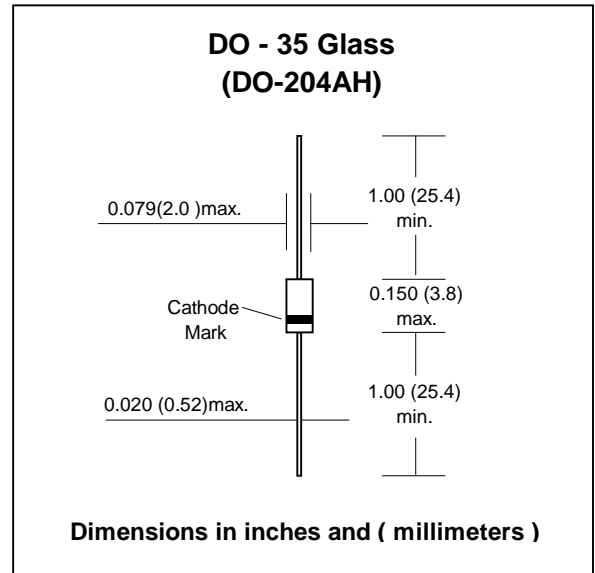
FEATURES :

- High switching speed: max. 4 ns
- Continuous reverse voltage: max. 30 V
- Repetitive peak reverse voltage: max. 35 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}	35	V
Maximum Continuous Reverse Voltage	V_{RM}	30	V
Maximum Continuous Forward Current	I_F	120	mA
Maximum Forward Current	I_{FM}	360	mA
Maximum Power Dissipation	P_D	300	mW
Maximum Non-repetitive Peak Forward Current	I_{FSM}	0.5	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	$V_R = 30\text{ V}$	-	-	0.5	μA
Forward Voltage	V_F	$I_F = 100\text{ mA}$	-	-	1.3	V
Diode Capacitance	C_d	$f = 1\text{ MHz}; V_R = 0$	-	-	3.0	pF
Reverse Recovery Time	T_{rr}	$I_F = 10\text{ mA to } I_R = 60\text{ mA}$ $R_L = 100\ \Omega$; measured at $I_R = 1\text{ mA}$	-	-	4	ns