

1S2076A

HIGH SPEED SWITCHING DIODE

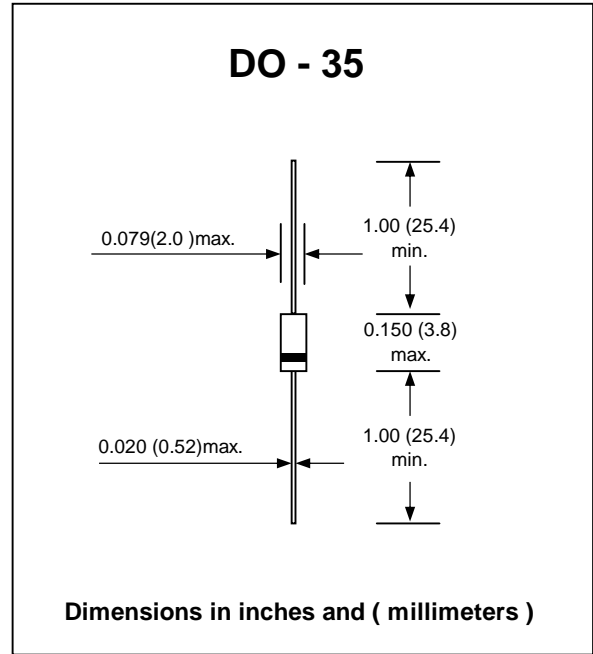
PRV : 70 Volts
Io : 150 mA

FEATURES :

- * Silicon Epitaxial Planar Diode
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * High speed switching
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : DO-35 Glass Case
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.13 gram (approximately)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
 Single phase, half wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

RATING	SYMBOL	VALUE	UNIT
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	70	V
Maximum Reverse Voltage	V_R	60	V
Maximum Average Forward Current	$I_{F(AV)}$	150	mA
Maximum Non-Repetitive Peak Forward Current (t < 1s)	I_{FSM}	1.0	A
Maximum Power Dissipation , Ta = 25 °C	P_D	250	mW
Maximum Forward Voltage at $I_F = 10$ mA	V_F	0.8	V
Maximum Reverse Current at $V_R = 30V$	I_R	100	nA
Maximum Reverse Recovery Time (IF = 10mA, VR = 6V , RL = 50Ω)	T_{rr}	4.0	ns
Maximum Capacitance Between Lead (VR = 1 V, f = 1MHz)	C	3.0	pF
Junction Temperature Range	T_J	175	°C
Storage Temperature Range	T_{STG}	- 65 to + 175	°C

RATING AND CHARACTERISTIC CURVES (1S2076A)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

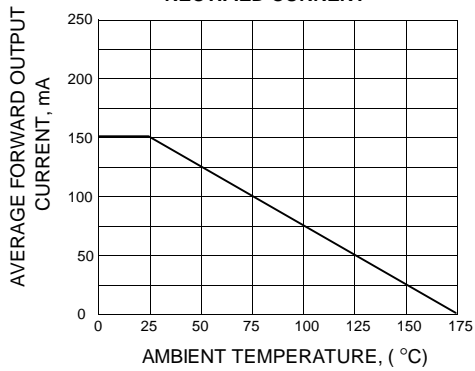


FIG.2 - POWER DARATING CURVE

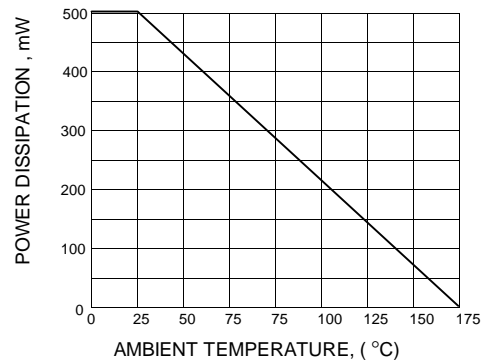


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

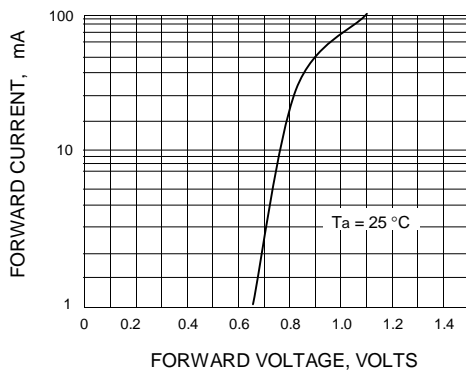
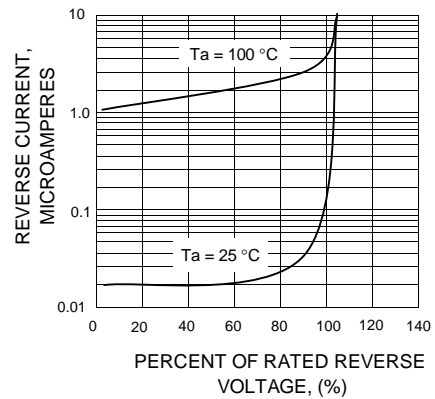


FIG.4 - TYPICAL REVERSE CHARACTERISTICS



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Diodes - General Purpose, Power, Switching category:](#)

Click to view products by [EIC Semiconductor manufacturer:](#)

Other Similar products are found below :

[MCL4151-TR3](#) [MMBD3004S-13-F](#) [RD0306T-H](#) [BAV17-TR](#) [BAV19-TR](#) [1N3611](#) [NTE156A](#) [NTE574](#) [NTE6244](#) [1SS181-TP](#)
[1SS400CST2RA](#) [SDAA13](#) [SHN2D02FUTW1T1G](#) [LS4151GS08](#) [1N4449](#) [1N456A](#) [1N4934-E3/73](#) [1N914B](#) [1N914BTR](#) [1SS226-TP](#)
[RFUH20TB3S](#) [D291S45T](#) [BAV300-TR](#) [BAW56DWQ-7-F](#) [BAW75-TAP](#) [MM230L-CAA](#) [IDW40E65D1](#) [JAN1N3600](#) [JAN1N4153-1](#)
[JAN1N4454-1](#) [JAN1N4454UR-1](#) [LL4151-GS18](#) [053684A](#) [SMMSD4148T3G](#) [707803H](#) [NSVDAN222T1G](#) [CDSZC01100-HF](#) [LL4150-M-08](#)
[1N4454-TR](#) [BAV199E6433HTMA1](#) [BAV70HDW-7](#) [BAS28-7](#) [JANTX1N6640](#) [BAW56HDW-13](#) [BAS28 TR](#) [VS-HFA04SD60STR-M3](#)
[NSVM1MA152WKT1G](#) [1SS388-TP](#) [RGP30D-E3/73](#) [VS-8EWF02S-M3](#)