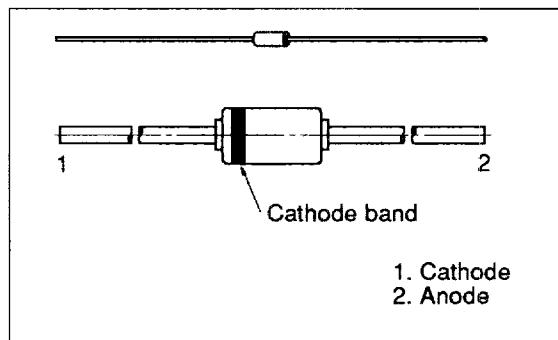


**Features**

- Low capacitance. ( $C=3.0\text{pF}$  max)
- Short reverse recovery time. ( $t_{rr}=8.0\text{ns}$  max)
- High reliability with glass seal.

**Ordering Information**

Type No.	Cathode band	Package Code
1S2076	Light Blue	DO-35

**Outline****Absolute Maximum Ratings (Ta = 25°C)**

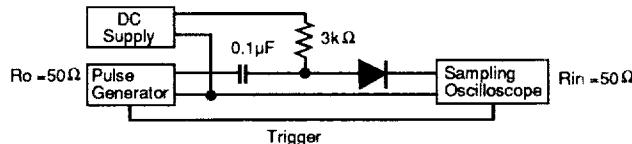
Item	Symbol	Value	Unit
Peak reverse voltage	V <sub>RM</sub>	35	V
Reverse voltage	V <sub>R</sub>	30	V
Peak forward current	I <sub>FM</sub>	450	mA
Non-Repetitive peak forward surge current	I <sub>FSM</sub> *	1	A
Average forward current	I <sub>o</sub>	150	mA
Power dissipation	P <sub>d</sub>	250	mW
Junction temperature	T <sub>j</sub>	175	°C
Storage temperature	T <sub>stg</sub>	-65 to +175	°C

\* Within 1s forward surge current.

**Electrical Characteristics (Ta = 25°C)**

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V <sub>F</sub>	0.64	—	0.80	V	I <sub>F</sub> = 10 mA
Reverse current	I <sub>R</sub>	—	—	0.1	μA	V <sub>R</sub> = 30 V
Capacitance	C	—	—	3.0	pF	V <sub>R</sub> = 1 V, f = 1 MHz
Reverse recovery time	t <sub>rr</sub> *	—	—	8.0	ns	I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>rr</sub> =1mA

\* Reverse recovery time test circuit



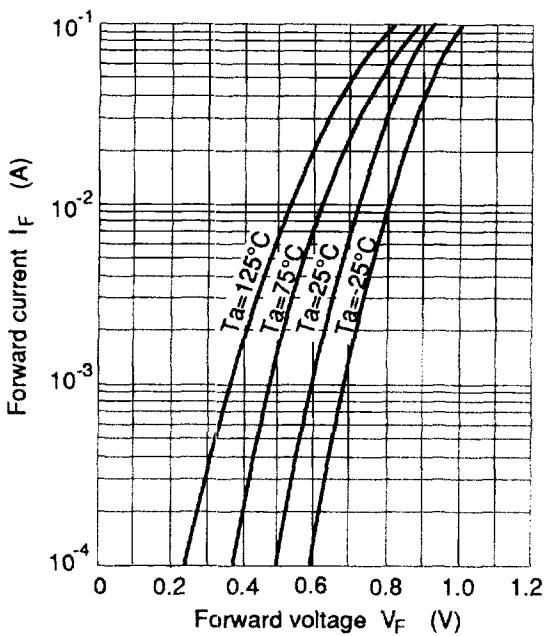


Fig.1 Forward current Vs.  
Forward voltage

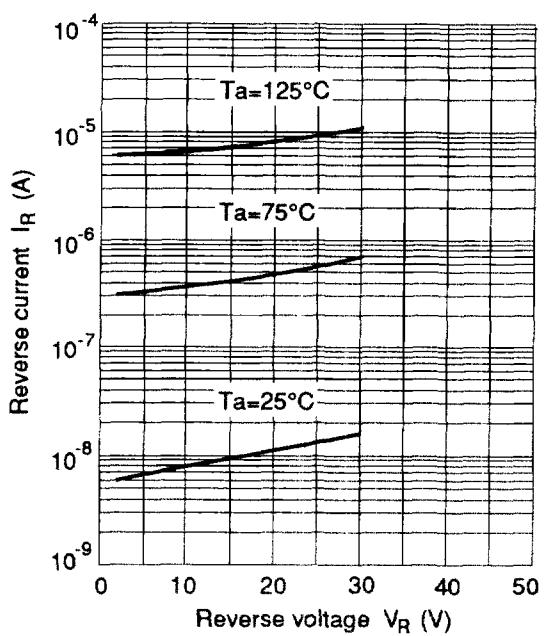


Fig.2 Reverse current Vs.  
Reverse voltage

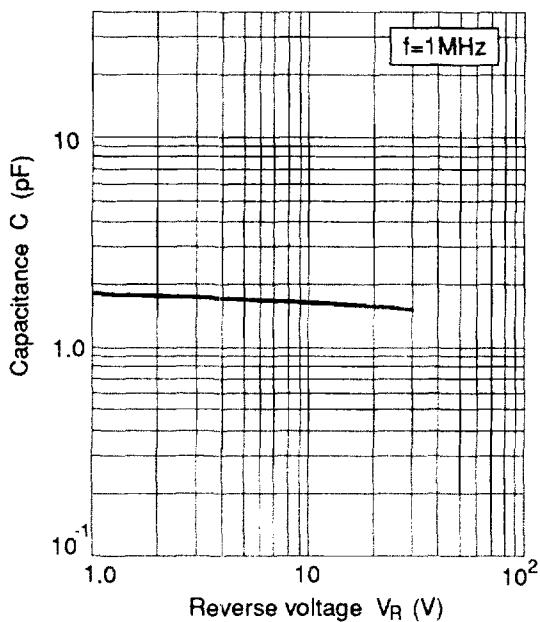


Fig.3 Capacitance Vs.  
Reverse voltage