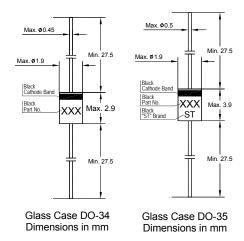
#### HIGH SPEED SWITCHING DIODE

#### **Features**

- Glass sealed envelope
- · High speed
- High reliability



### Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	90	V
DC Reverse Voltage	V <sub>R</sub>	80	V
Mean Rectifying Current	Io	130	mA
Peak Forward Current	I <sub>FM</sub>	400	mA
Surge Current (1s)	I <sub>surge</sub>	600	mA
Power Dissipation	P <sub>tot</sub>	300	mW
Junction Temperature	T <sub>j</sub>	175	°C
Storage Temperature Range	T <sub>s</sub>	- 65 to + 175	°C

## Characteristics at T<sub>a</sub> = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at I <sub>F</sub> = 100 mA	V <sub>F</sub>	1.2	V
Reverse Current at V <sub>R</sub> = 80 V	I <sub>R</sub>	0.5	μΑ
Capacitance between Terminals at $V_R = 0.5 \text{ V}$ , $f = 1 \text{ MHz}$	Ст	2	pF
Reverse Recovery Time at $I_F$ = 10 mA, $V_R$ = 6 V, $R_L$ = 50 $\Omega$	t <sub>rr</sub>	4	ns









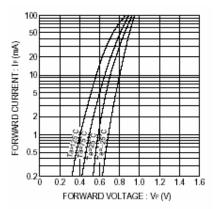


Fig. 1 Forward characteristics

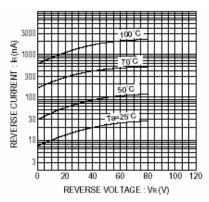


Fig. 2 Reverse characteristics

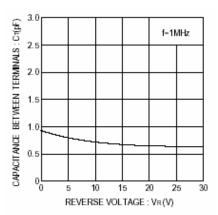


Fig. 3 Capacitance between terminals characteristics

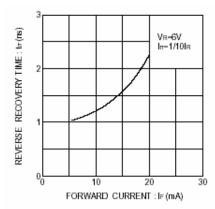


Fig. 4 Reverse recovery time characteristics

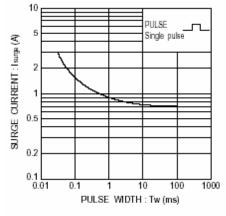


Fig.5 Surge current characteristics

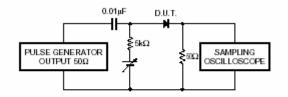


Fig. 6 Reverse recovery time (tr) measurement circuit



# SEMTECH ELECTRONICS LTD.







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