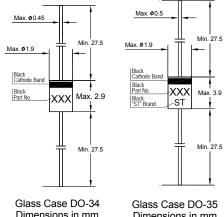
HIGH SPEED SWITCHING DIODE

Features

- Glass sealed envelope
- · High speed
- High reliability



Dimensions in mm

Dimensions in mm

Absolute Maximum Ratings (T_a = 25 °C)

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

Characteristics at T_a = 25 °C

Parameter	Symbol	Max.	Unit
Forward Voltage at I _F = 100 mA	V _F	1.2	V
Reverse Current at V _R = 80 V	I _R	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 Ω	t _{rr}	4	ns









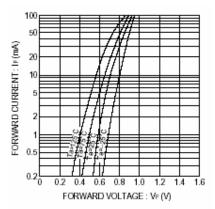


Fig. 1 Forward characteristics

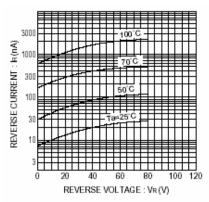


Fig. 2 Reverse characteristics

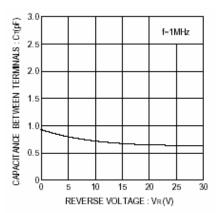


Fig. 3 Capacitance between terminals characteristics

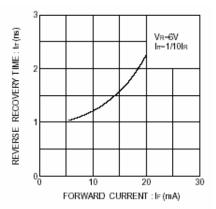


Fig. 4 Reverse recovery time characteristics

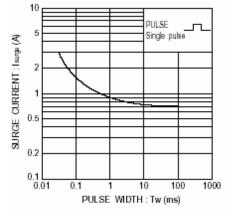


Fig.5 Surge current characteristics

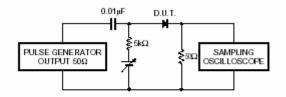


Fig. 6 Reverse recovery time (tr) measurement circuit



SEMTECH ELECTRONICS LTD.

(Subsidiary of Sino-Tech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)







Dated: 23/06/2007