



# FUKUCOM COMPANY LTD.

福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,  
KWUN TONG, KOWLOON, HONG KONG.

TEL: 852-2790 0314 FAX: 852-2790 0206

## 1SS270A

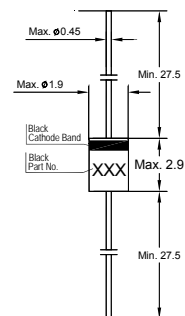
### Silicon Epitaxial Planar Switching Diode

#### Features

- Low capacitance
- Short reverse recovery time
- High reliability

#### Applications

- High-speed switching



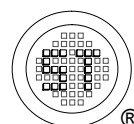
Glass Case DO-34  
Dimensions in mm

#### Absolute Maximum Ratings ( $T_a = 25\text{ }^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Peak Reverse Voltage	$V_{RM}$	70	V
Reverse Voltage	$V_R$	60	V
Average Forward Current	$I_{F(AV)}$	150	mA
Peak Forward Current	$I_{FM}$	450	mA
Non-Repetitive Peak Forward Surge Current (1 s)	$I_{FSM}$	1	A
Power Dissipation	$P_{tot}$	250	mW
Junction Temperature	$T_j$	175	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 65 to + 175	$^\circ\text{C}$

#### Characteristics at $T_a = 25\text{ }^\circ\text{C}$

Parameter	Symbol	Max.	Unit
Forward Voltage at $I_F = 10\text{ mA}$	$V_F$	0.8	V
Reverse Current at $V_R = 60\text{ V}$	$I_R$	1	$\mu\text{A}$
Capacitance between Terminals at $V_R = 1\text{ V}$ , $f = 1\text{ MHz}$	$C_T$	3	pF
Reverse Recovery Time at $I_F = 10\text{ mA}$ , $V_R = 6\text{ V}$ , $R_L = 50\ \Omega$	$t_{rr}$	3.5	ns



Dated : 15/06/2009



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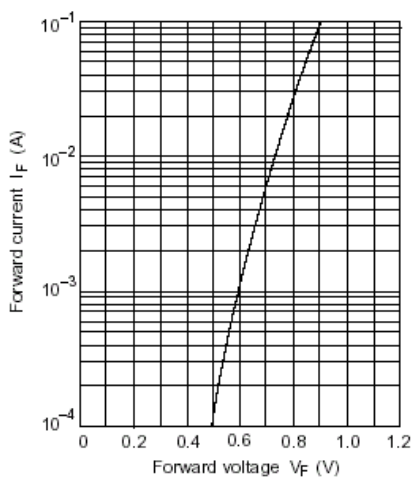
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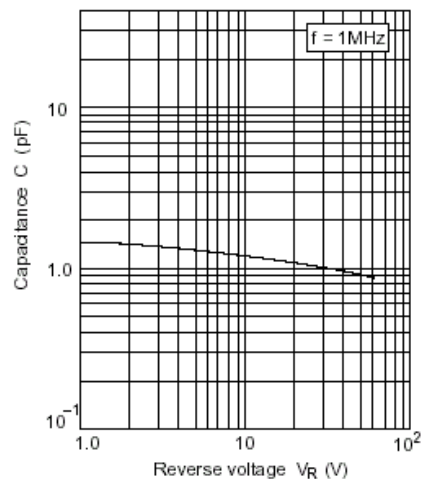
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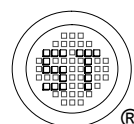
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Forward current Vs. Forward voltage



Capacitance Vs. Reverse voltage



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