

5DS01B

Switching Diode

PHENITEC
SEMICONDUCTOR

Features

- High-speed

Item	Characteristics
Wafer size	5 inch
Chip size	240*240um

Maximum Ratings @25degC

Item	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	VRSM	100	V
Repetitive Peak Reverse Voltage	VRRM	75	V
Repetitive Peak Forward Current	IFRM	500	mA
Continuous Forward Current	IO	150	mA
Non-Repetitive Peak Forward Current @t=1us	IFSM	2	A
Power Dissipation	PD	500	mW
Junction Temperature	Tj	175	degC
Storage Temperature	Tstg	-65to+175	degC

Electrical Characteristics @25degC

Item	Symbol	Min	Max	Unit	Test Condition
Forward Voltage	VF		1.05	V	IF=100mA
Breakdown Voltage	BV	100		V	IR=100uA
Reverse Current	IR		25	nA	VR=20V
Junction Capacitance	CT		4	pF	VR=0V, f=1MHz
Reverse Recovery Time	trr		4	nsec	IF=IR=10mA RL=100Ω, irr=1mA

Probing Spec @25degC

Symbol	Min	Max	Unit	Test Condition
VF		1.05	V	IF=100mA
BV	105		V	IR=100uA
IR1		25	nA	VR=30V
IR2		2	uA	VR=85V
CT		4	pF	VR=0V, f=1MHz
trr		4	nsec	IF=IR=10mA RL=100Ω, irr=1mA

Note Equivalent type : BAW62

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