

# SILICON SWITCHING DIODE

# HIGH SPEED SWITCHING SILICON EPITAXIAL DOUBLE DIODE : COMMON ANODE

### **FEATURES**

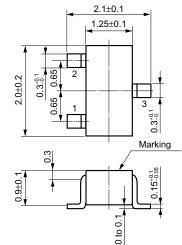
- Low capacitance: Ct = 2.5 pF TYP.
- High speed switching: trr = 4.0 ns MAX.
- Wide applications including switching, limitter, clipper.
- Double diode configuration assures economical use.

#### **ABSOLUTE MAXIMUM RATINGS**

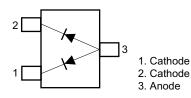
Maximum Voltages and Currents (TA = 25°C)

	0)		
Peak Reverse Voltage	Vrm	75	V
DC Reverse Voltage	VR	50	V
Surge Current (1 $\mu$ s) <sup>Note</sup>	IFSM	6.0	А
Surge Current (1 $\mu$ s)	IFSM	4.0	А
Peak Forward Current Note	Iгм	450	mA
Peak Forward Current	IFM	300	mA
Average Rectified Current Note	lo	150	mA
Average Rectified Current	lo	100	mA
Maximum Temperatures			
Junction Temperature	Tj	150	°C
Storage Temperature Range	Tstg	–55 to + 150	°C
Thermal Resistance			
Junction to Ambient Note	Rth(j-a)	1.0	°C/mW
Junction to Ambient	Rth(j-a)	0.85	°C/mW
Note Both diodes loaded simultaneously.			

# PACKAGE DIMENSIONS (Unit: mm)



### **CONNECTION DIAGRAM (Top View)**



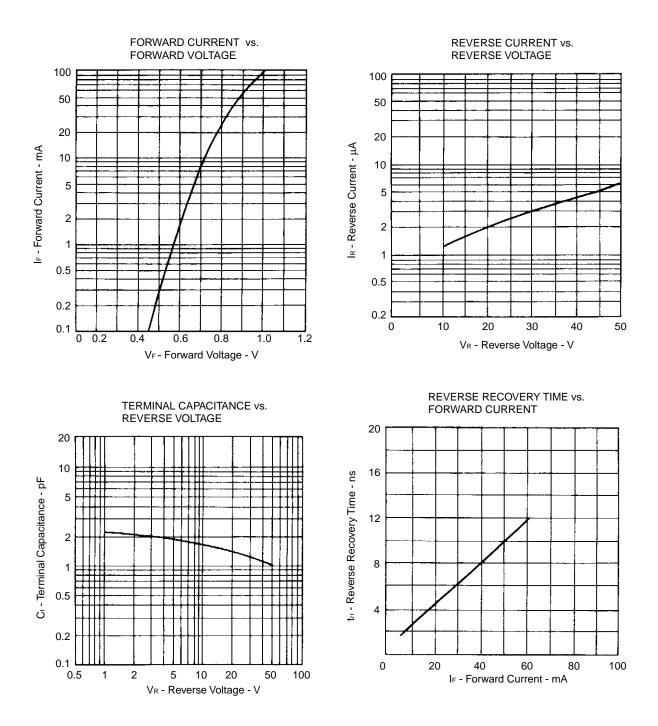
Marking : A4

## ELECTRICAL CHARACTERISTICS (TA = 25°C)

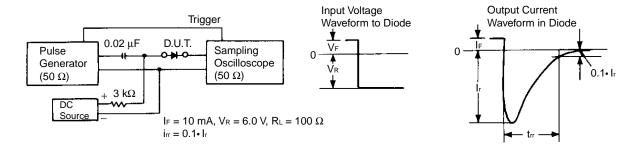
CHARACTERISTICS	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V <sub>F1</sub>	IF = 10 mA		0.72	1.0	V
	VF2	IF = 50 mA		0.88	1.1	V
	V <sub>F3</sub>	IF = 100 mA		1.0	1.2	V
Reverse Current	IR	V <sub>R</sub> = 50 V			0.1	μA
Capacitance	Ct	V <sub>R</sub> = 0 V, f = 1.0 MHz		2.5	4.0	pF
Reverse Recovery Time	trr	See Test Circuit.			4.0	ns

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### TYPICAL ELECTRICAL CURVES (TA = 25°C)



### REVERSE RECOVERY TIME (trr) TEST CIRCUIT



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