

SILICON SWITCHING DIODE

HIGH SPEED SWITCHING SILICON EPITAXIAL DIODE

FEATURES

- Low capacitance: Ct = 4.0 pF MAX.
- High speed switching: trr = 3.0 ns MAX.
- Wide applications including switching, limitter, clipper.

ABSOLUTE MAXIMUM RATINGS

Maximum Voltages and Currents (TA = 25°C)

Peak Reverse Voltage	Vrm	100	V
DC Reverse Voltage	VR	100	V
Peak Forward Current	lгм	300	mA
Average Rectified Current	lo	100	mA
DC Forward Current	lf	100	mA
Maximum Temperatures			
Junction Temperature	Tj	150	°C
Storage Temperature Range	Tstg	–55 to + 150	°C
Thermal Resistance			

Junction to Ambient

0.85

Rth(j-a)

°C/mW

PACKAGE DIMENSIONS (Unit: mm)



CONNECTION DIAGRAM (Top View)



Marking : A14

ELECTRICAL CHARACTERISTICS (TA = 25°C)

CHARACTERISTICS	SYMBOL	TEST CONDITIONS	MIN.	TYP.	MAX.	UNIT
Forward Voltage	V _{F1}	IF = 10 mA		720	850	mV
	VF2	l⊧ = 50 mA		850	1000	mV
	V _{F3}	IF = 100 mA		950	1200	mV
Reverse Current	Ir	VR = 100 V			1.0	μA
Capacitance	Ct	$V_{R} = 0 V, f = 1.0 MHz$		2.0	4.0	pF
Reverse Recovery Time	trr	IF = 10 mA, VR = 6 V, RL = 100 Ω , See Test Circuit.			3.0	ns

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TYPICAL CHARACTERISTICS (TA = 25°C)



SWITCHING CHARACTERISTICS TEST CIRCUIT

Reverse recovery time : trr



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