

**SWITCHING DIODE**

 VOLTAGE RANGE: 75 VOLTS  
 CURRENT: 100mA

**FEATURES**

- High speed switching:  $t_{rr} = 3.0ns(max)$
- Low capacitance:  $C_T = 1.1pF(typ.)$

**MARKING: A6**

**SOT-323**

1. ANODE
2. ANODE
3. CATHODE

UNIT:mm

**MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**  
 Ratings at 25°C ambient temperature unless otherwise specified.

**MAXIMUM RATINGS**

Parameters	Symbols	Limits	UNITS
Non-Repetitive Peak Reverse Voltage	$V_{RM}$	75	V
DC Blocking Voltage	$V_R$	50	V
Average Rectified Output Current	$I_O$	100	mA
Power Dissipation	$P_d$	100	mW
Junction Temperature	$T_J$	150	°C
Storage Temperature Range	$T_{STG}$	-55-150	°C

**ELECTRICAL CHARACTERISTICS**

Parameters	Symbols	Test conditions	Min.	Typ.	Max.	UNITS
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100\mu A$	75			V
Forward Voltage	$V_{F1}$	$I_F = 10mA$		0.67	1	V
	$V_{F2}$	$I_F = 50mA$		0.75	1.1	V
	$V_{F3}$	$I_F = 100mA$		0.85	1.2	V
Reverse Current	$I_R$	$V_R = 50V$			0.1	$\mu A$
Reverse Recovery Time	$t_{rr}$	$I_F = 10mA, V_R = 6V$ $R_L = 100\Omega, I_{rr} = 0.1 * I_R$			3.0	ns
Capacitance between Terminals	$C_T$	$V_R = 0V, f = 1MHz$		1.1	4.0	pF

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