

SWITCHING DIODE

VOLTAGE RANGE: 75 VOLTS

CURRENT: 100mA

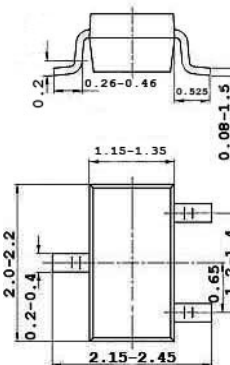
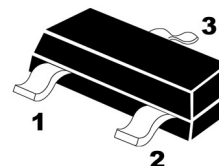
FEATURES

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

MARKING: A6

SOT-323

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