

SCHOTTKY DIODE

VOLTAGE RANGE: 20 VOLTS

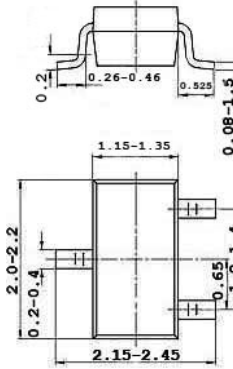
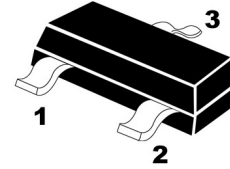
CURRENT: 300mA

FEATURES

- Low forward voltage: $V_F = 0.38V$ (typ.)
- Low reverse current: $I_R = 50\mu A$ (max)
- Small total capacitance: $C_T = 46pF$ (typ.)

MARKING: D9
SOT-323

1. ANODE
2. NC
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}	25	V
Peak Repetitive Peak Reverse Voltage	V_{RRM}	20	V
Working Peak Reverse Voltage	V_{RWM}		
DC Blocking Voltage	V_R		
Forward Continuous Current	I_{FM}	700	mA
Average Rectified Output Current	I_O	300	mA
Power Dissipation	P_d	100	mW
Junction Temperature	T_J	125	°C
Storage Temperature Range	T_{STG}	-55-125	°C

ELECTRICAL CHARACTERISTICS

Parameters	Symbols	Test conditions	Min.	Typ.	Max.	UNITS
Reverse Breakdown Voltage	$V_{(BR)R}$	$I_R = 100\mu A$	20			V
Forward Voltage	V_{F1}	$I_F = 1mA$		0.16		V
	V_{F2}	$I_F = 10mA$		0.22		V
	V_{F3}	$I_F = 300mA$		0.38	0.45	V
Reverse Current	I_R	$V_R = 20V$			50	μA
Capacitance between Terminals	C_T	$V_R = 0V, f = 1MHz$		46		pF

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