



SS0115TW

SURFACE MOUNT SCHOTTKY BARRIER DIODE

VOLTAGE 15 Volts **CURRENT** 0.1 Ampere

FEATURES

- Low voltage high speed switching application
- Small surface mounting type
- Low V_F and low I_R
- Three diodes in parallel installation
- Power dissipation is 200mW
- Maximum peak forward current is 200mA
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MECHANICAL DATA

Case : SOT-363, Plastic

Terminals : Solderable per MIL-STD-750, Method 2026

Approx. Weight : 0.006 gram

Marking : 115

MAXIMUM RATINGS (at $T_A=25^\circ\text{C}$ unless otherwise specified)

Ratings	Symbol	Limits	Unit
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	15	V
Maximum RMS Voltage	V_{RMS}	10	V
Maximum DC Blocking Voltage	V_{DC}	15	V
Maximum Average Forward Rectified Current	I_O	0.1	A
Peak Forward Surge Current at 8.3ms single half sine-wave	I_{FSM}	1.0	A
Typical Junction Capacitance between Terminal (Note 1)	C_J	40	pF
Operating Junction and Storage Temperature Range	T_J, T_{STG}	-55 to +125	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS (at $T_A=25^\circ\text{C}$ unless otherwise specified)

Characteristics	Symbol	Min.	Typ.	Max.	Unit
Maximum Instantaneous Forward Voltage at $I_F=1\text{mA}$ $I_F=5\text{mA}$ $I_F=100\text{mA}$	V_F	- - -	0.18 0.23 0.35	- 0.30 0.50	V
Maximum Average Reverse Current at $V_R=10\text{V}$	I_R	-	-	20	μA

NOTES : 1. Measured at 1.0MHz and applied reverse voltage of 0 volts

2. ESD sensitive product handling required

