

**REVERSE VOLTAGE: 20 - 200 V**  
**FORWARD CURRENT: 2.0 A**



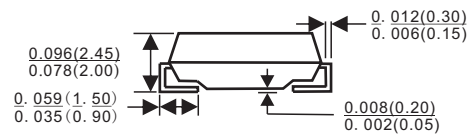
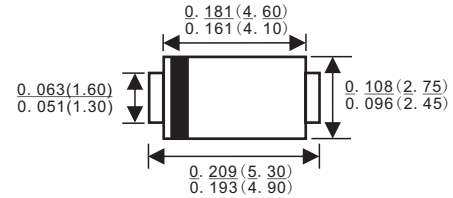
## Features

- ✧ Schottky barrier rectifier
- ✧ Guardring protection
- ✧ Low forward voltage
- ✧ Reverse energy tested
- ✧ High current capability
- ✧ Extremely low thermal resistance

## Mechanical Data

- ✧ Case: SMA molded plastic body
- ✧ Polarity: Color band denotes cathode end
- ✧ Mounting position: ANY
- ✧ Weight: 0.002 ounces, 0.064 gram

## SMA/DO-214AC



Dimensions in inches and(millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 C ambient temperature unless otherwise specified

		BYS10-25	BYS10-35	BYS10-45	UNITS
Maximum repetitive peak reverse voltage	$V_{RRM}$	25	35	45	V
Maximum average forward rectified current at $T_L=90^{\circ}C$	$I_{F(AV)}$	1.5			A
Peak forward surge current 8.3ms single half-sine-wave	$I_{FSM}$	30			A
Maximum instantaneous forward voltage at $I_{FM}=2.0A$ (NOTE1)	$V_F$	0.50			V
Maximum DC reverse current $T_J=25^{\circ}C$ at rated DC blocking voltage $T_J=125^{\circ}C$	$I_R$	0.5 10			m A
Maximum thermal resistance	$R_{\theta JL}$	25			$^{\circ}C/W$
Operating temperature range	$T_J$	-55 ---- +150			$^{\circ}C$
Storage temperature range	$T_{STG}$	-55 ---- +150			$^{\circ}C$

NOTE: 1.Pulse test: Pulse width 300us,duty cycle 1 %

## Ratings AND Characteristic Curves

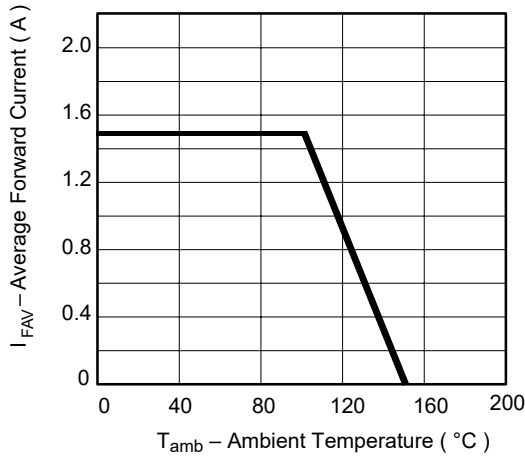


Figure 1. Average Forward Current

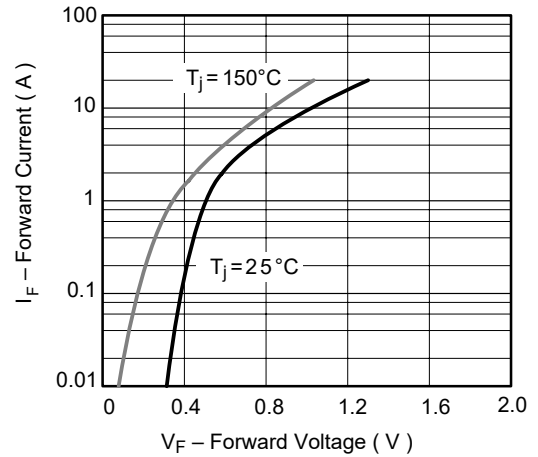


Figure 2. Forward Current vs. Forward Voltage

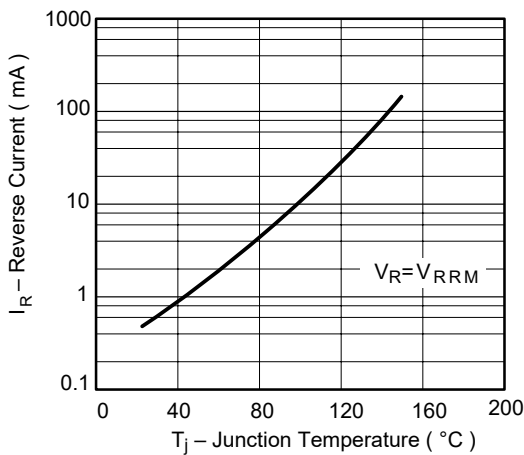


Figure 3. Reverse Current vs. Junction Temperature

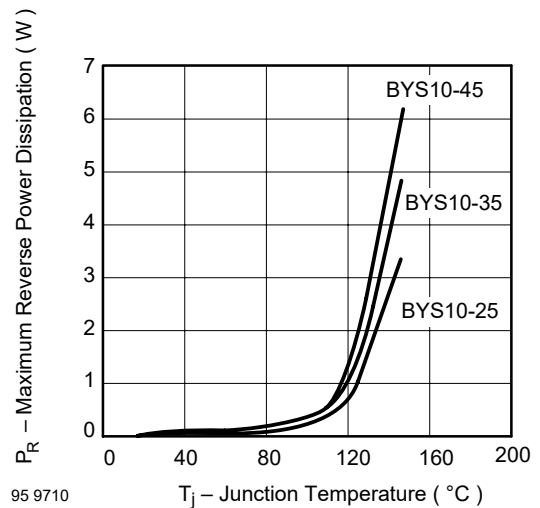


Figure 4. Reverse Power Dissipation vs. Junction Temperature