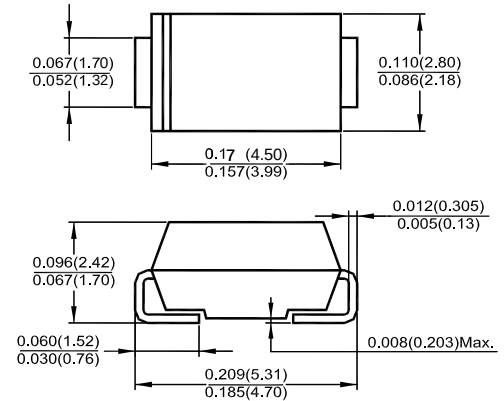


## Features

- ◇ For surface mounted application
- ◇ Easy pick and place
- ◇ Low forward voltage drop
- ◇ High current capability
- ◇ High surge current capability
- ◇ High temperature soldering guaranteed:  
260°C / 10 seconds at terminals
- ◇ Plastic material used carriers Underwriters  
Laboratory Classification 94V-0



Dimensions in inches and (millimeters)  
DO-214AC (SMA)

## Mechanical Data

- ◇ Case: JEDEC DO-214AC, molded plastic body over passivated chip
- ◇ Polarity: Color band denotes cathode end

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

|                                                         |             |                                     |                                                              |
|---------------------------------------------------------|-------------|-------------------------------------|--------------------------------------------------------------|
| Average Forward current                                 | $I_{F(AV)}$ | 1.0A                                | $T_L = 110^\circ\text{C}$                                    |
| Peak Forward Surge Current                              | $I_{FSM}$   | 30A                                 | 8.3ms, half sine,                                            |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 1.15V                               | $I_{FM} = 1.0\text{A};$<br>$T_J = 25^\circ\text{C}^*$        |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 1 $\mu\text{A}$<br>50 $\mu\text{A}$ | $T_J = 25^\circ\text{C}$<br>$T_J = 100^\circ\text{C}$        |
| Typical Reverse Recovery Time                           | $T_{rr}$    | 2500ns                              | $I_F=0.5\text{A}, I_R=1.0\text{A},$<br>$I_{rr}=0.25\text{A}$ |

\*Pulse test: Pulse width 300  $\mu\text{sec}$ , Duty cycle 2%

Note 1: High Temperature Solder Exemptions Applied, see EU Directive Annex 7a.

## Typical Characteristics

Figure 1  
Typical Reverse Characteristics

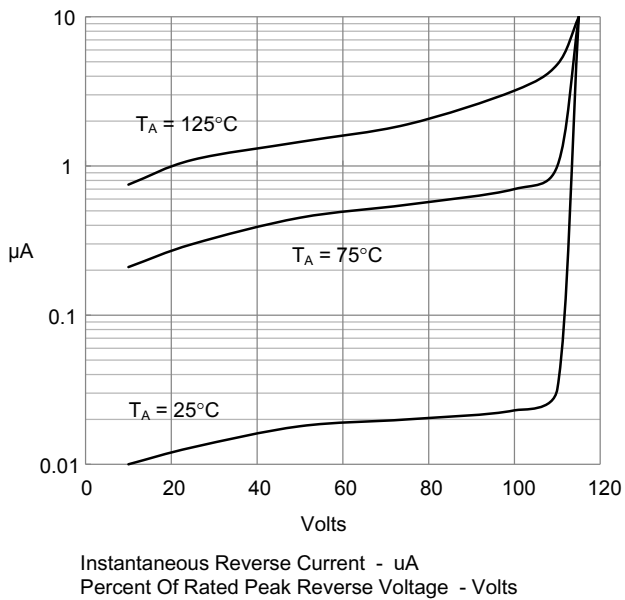


Figure 2  
Forward Derating Curve

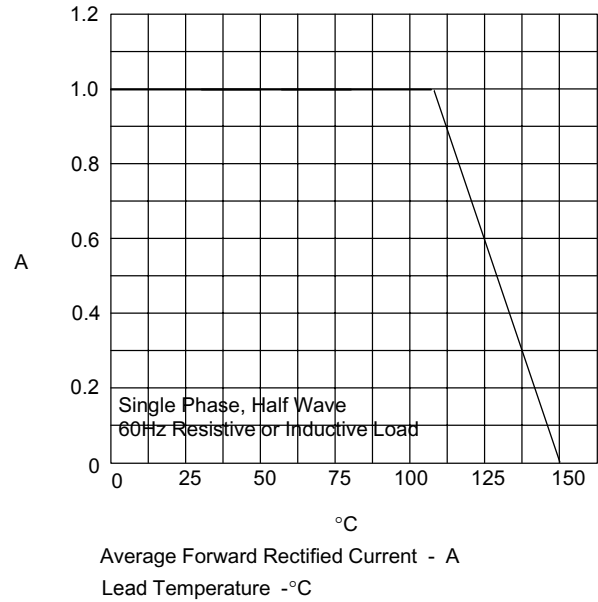


Figure 3  
Peak Forward Surge Current

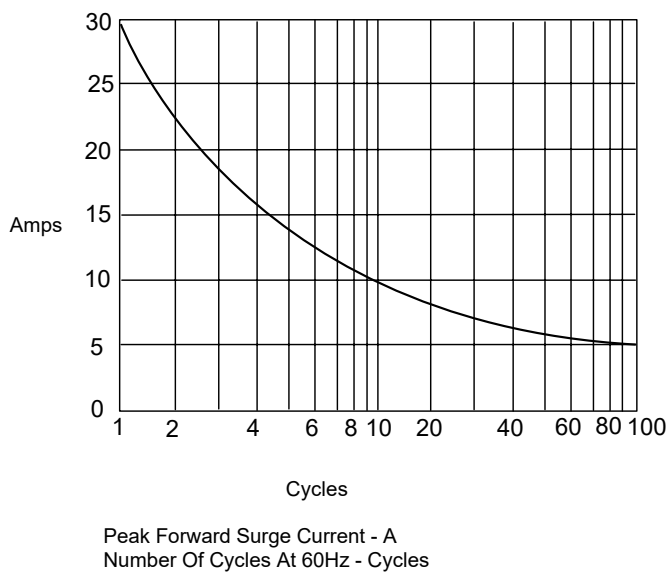


Figure 4  
Typical Forward Characteristics

