



## Features

The plastic package carries Underwriters Laboratory

Flammability Classification 94V-0

For surface mounted applications

Ultra fast switching for high efficiency

Low reverse leakage

Built-in strain relief, ideal for automated placement

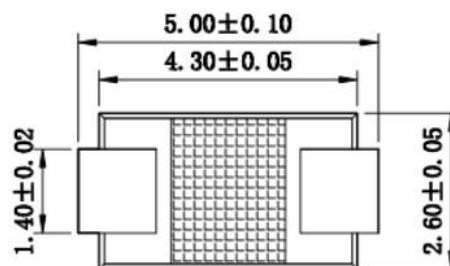
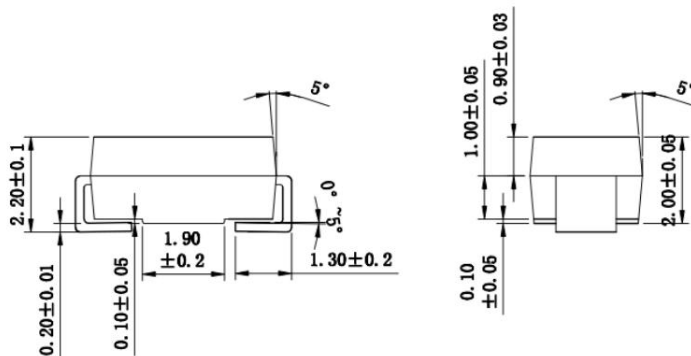
High forward surge current capability

High temperature soldering guaranteed

260 C/10 seconds at terminals

Glass passivated chip junction

## SMA/DO-214AC



## Mechanical data

**Case:** JEDEC SMA/DO-214AC molded plastic body

**Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026

**Polarity:** Color band denotes cathode end

**Mounting Position:** Any

Maximum ratings and Electrical Characteristics (AT T =25 C unless otherwise noted)

Type Number	SYMBOL	RS2AA	RS2BA	RS2DA	RS2GA	RS2JA	RS2KA	RS2MA	unit
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	140	420	560	700	V
Maximum DC blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .at TA =55°C	$I_{F(AV)}$	2							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)	$I_{FSM}$	50.0							A
Maximum Forward Voltage at 1.5A DC	$V_F$	1.3							V
Maximum DC Reverse Current @T <sub>A</sub> =25°C At rated DC blocking voltage @T <sub>A</sub> =100°C	$I_R$	5.0							μA
		100.0							
Typical Junction Capacitance (Note1)	$C_j$	30							pF
Maximum reverserecovery tme (Note2)	$t_{rr}$	150				250	500		ns
Typical Thermal Resistance (Note 2)	$R_{(JA)}$	90							°C /W
Storage Temperature	$T_{STG}$	-55 to +150							°C
Operation Junction Temperature	$T_J$	-55 to +150							°C

**Note:** 1.Reverse recovery condition  $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$

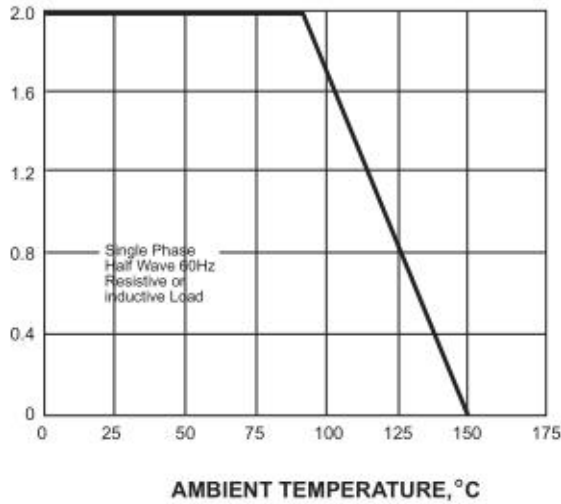
2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



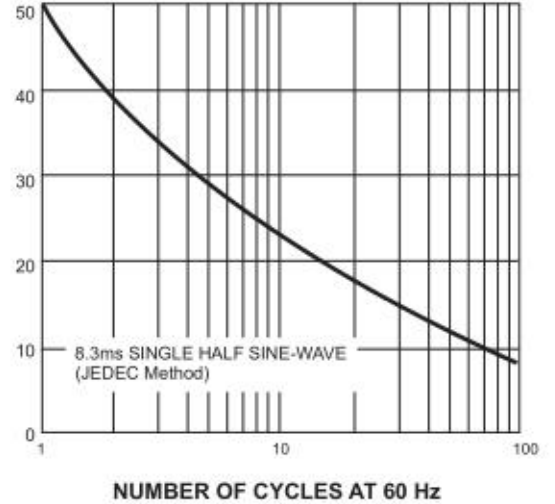
AVERAGE FORWARD RECTIFIED CURRENT,  
AMPERES

FIG. 1- FORWARD CURRENT DERATING CURVE



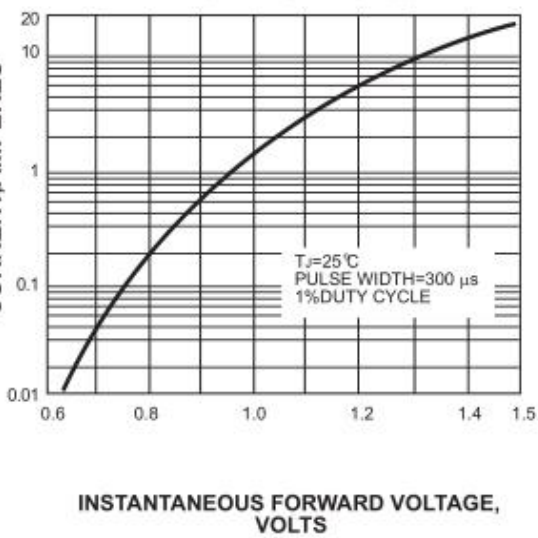
PEAK FORWARD SURGE CURRENT,  
AMPERES

FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD  
SURGE CURRENT



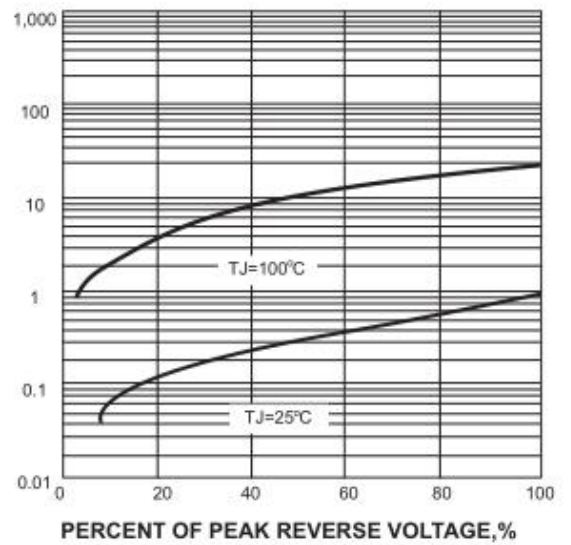
INSTANTANEOUS FORWARD  
CURRENT,AMPERES

FIG. 3-TYPICAL INSTANTANEOUS FORWARD  
CHARACTERISTICS



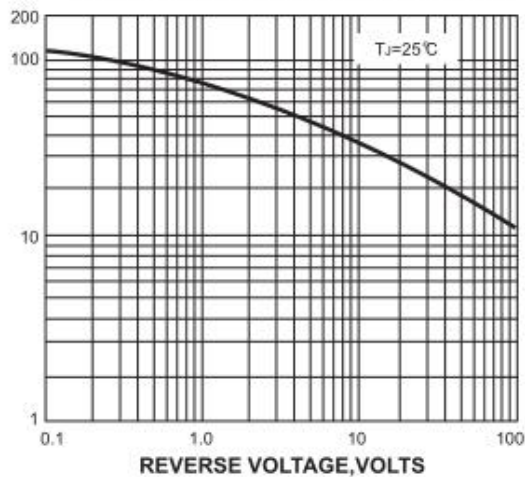
INSTANTANEOUS REVERSE CURRENT,  
MICROAMPERES

FIG. 4-TYPICAL REVERSE CHARACTERISTICS



JUNCTION CAPACITANCE, pF

FIG. 5-TYPICAL JUNCTION CAPACITANCE



TRANSIENT THERMAL IMPEDANCE,  
°C/W

FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE

