

#### **Features**

- Average Forward Current: I<sub>F(AV)</sub>=3A
- Polarity: Color band denotes cathode



## Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
VSSA310SHM3_A/I	SMA (DO-214AC)	SS310	2000





### Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Test Conditions	Limit	Unit
Repetitive Peak Reverse Voltage	V <sub>RRM</sub>		100	V
Maximum RMS Voltage	$V_{RMS}$		70	٧
Average Forward Current	l <sub>F(AV)</sub>	60Hz Half-sine wave, Resistance load, FIG.1	3.0	Α
Surge(Non-repetitive) Forward Current	I <sub>FSM</sub>	60Hz Half-sine wave, 1 cycle, Ta=25°C	70	Α
Junction Temperature	TJ		-55 ~ +150	°C
Storage Temperature	T <sub>STG</sub>		-55 ~ +150	°C

Electrical Characteristics (Ta=25°C unless otherwise specified)

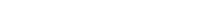
Item	Symbol	Unit	Test Condition		Limit	
Peak Forward Voltage	V <sub>F</sub>	V	I <sub>F</sub> =3.0A		0.85	
Peak Reverse Current	I <sub>RRM1</sub>	I <sub>RRM1</sub> mA	V <sub>RM</sub> =V <sub>RRM</sub>	T <sub>a</sub> =25°C	0.1	
	I <sub>RRM2</sub>			T <sub>a</sub> =100°C	5.0	
Thermal Resistance(Typical)	$R_{\theta J-A}$	°C/	Between junction and ambient		75	
	$R_{\theta J-L}$	W	Between junction and terminal		17	

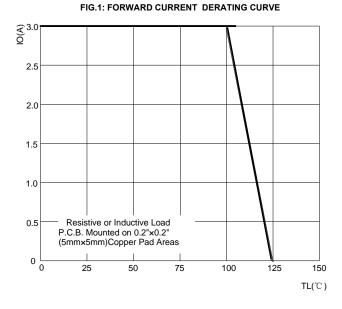
#### Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" x 0.2" (5.0 mm x 5.0 mm) copper pad areas

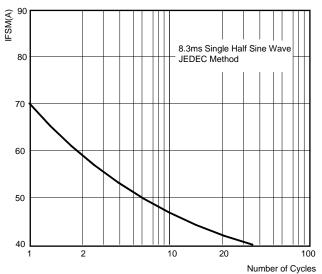


## **Typical Characteristics**



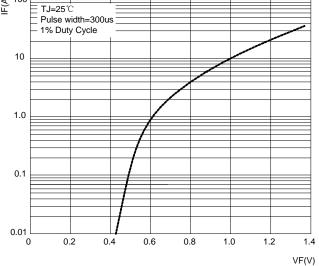


#### FIG.2: MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

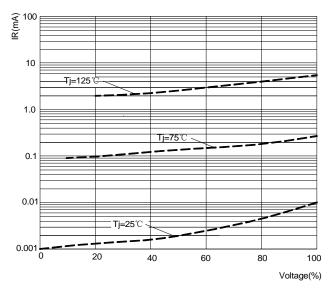


#### FIG.3: TYPICAL FORWARD CHARACTERISTICS



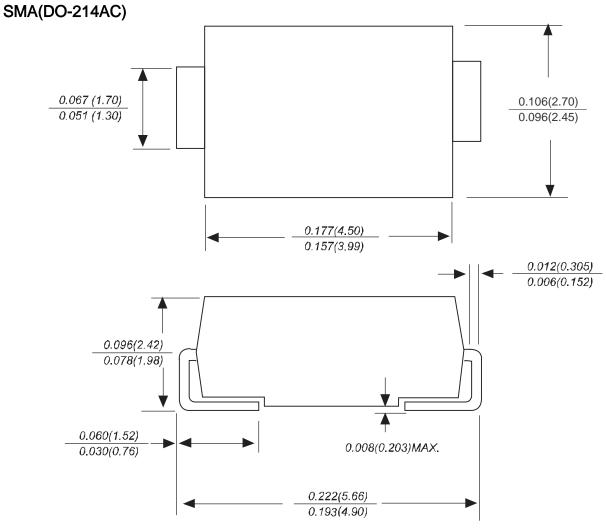


#### FIG.4: TYPICAL REVERSE CHARACTERISTICS





## Package Outline Dimensions



Dimensions in inches and (millimeters)

# VSSA310SHM3\_A/I SCHOTTKY RECTIFIER DIODES

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