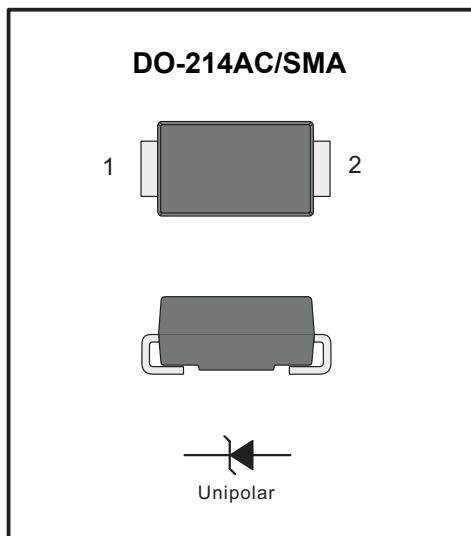


## SURFACE MOUNT SCHOTTKY BARRIER RECTIFIER

### PINNING

PIN	DESCRIPTION
1	Cathode
2	Anode



### Features

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- ◆ For surface mounted applications
- ◆ Metal silicon junction,majority carrier conduction
- ◆ Low power loss,high efficiency
- ◆ Built-in strain relief,ideal for automated placement
- ◆ High forward surge current capability
- ◆ High temperature soldering guaranteed:  
250 °C/10 seconds at terminals

### Mechanical Data

- ◆ Case : JEDEC DO-214AC/SMA molded plastic body
- ◆ Terminals : Solderable per MIL-STD-750,Method 2026
- ◆ Polarity : Color band denotes cathode end Mounting
- ◆ Position : Any
- ◆ Weight : 0.002 ounce, 0.07 grams

## Maximum Ratings And Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

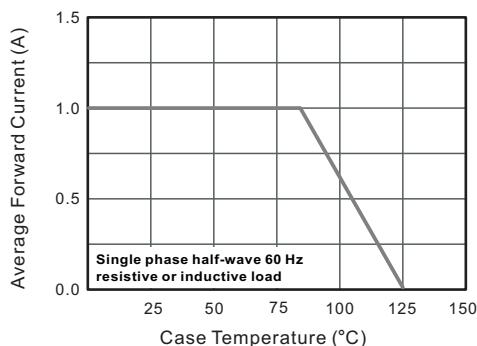
Single phase half-wave 60Hz,resistive or inductive load,for capacitive load current derate by 20%.

Parameter	SYMBOLS	SS12	SS13	SS14	SS15	SS16	SS18	SS110	SS1150	SS1200	UNITS
Maximum repetitive peak reverse voltage	V <sub>RRM</sub>	20	30	40	50	60	80	100	150	200	V
Maximum RMS voltage	V <sub>RMS</sub>	14	21	28	35	42	56	70	105	140	V
Maximum DC blocking voltage	V <sub>DC</sub>	20	30	40	50	60	80	100	150	200	V
Maximum average forward rectified current at TL(see fig.1)	I <sub>(AV)</sub>						1.0				A
Peak forward surge current 8.3ms single half sine-wave superimposed onrated load (JEDEC Method)	I <sub>FSM</sub>						30				A
Maximum instantaneous forward voltage at 1.0A	V <sub>F</sub>	0.45	0.55		0.70			0.85		0.9	V
Maximum DC reverse current TA=25°C at rated DC blocking voltage TA=125°C	I <sub>R</sub>			0.5				0.2			mA
				10.0			5.0		2.0		
Typical junction capacitance (NOTE 1)	C <sub>J</sub>	110				90					pF
Typical thermal resistance (NOTE 2)	R <sub>θJA</sub>				88.0						°C/W
Operating junction temperature range	T <sub>J</sub>		-50 to +125				-50 to +150				°C
Storage temperature range	T <sub>STG</sub>				-50 to +150						°C

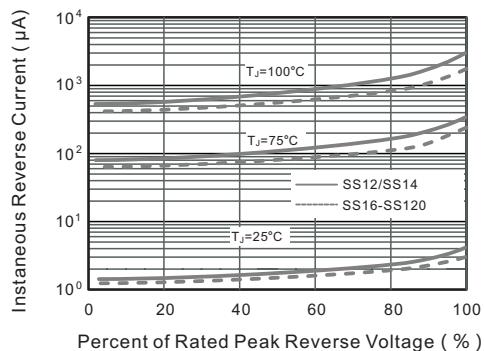
Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

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

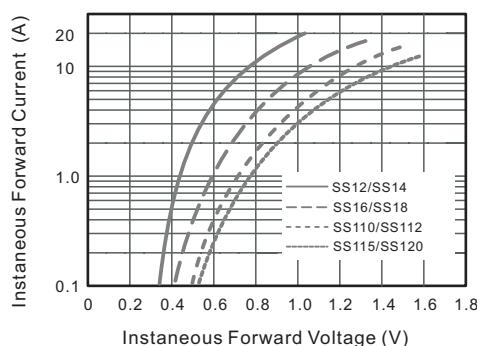
**Fig.1 Forward Current Derating Curve**



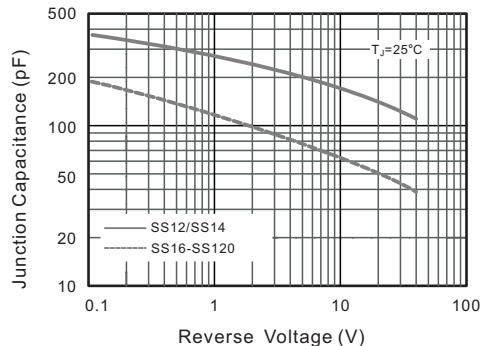
**Fig.2 Typical Reverse Characteristics**



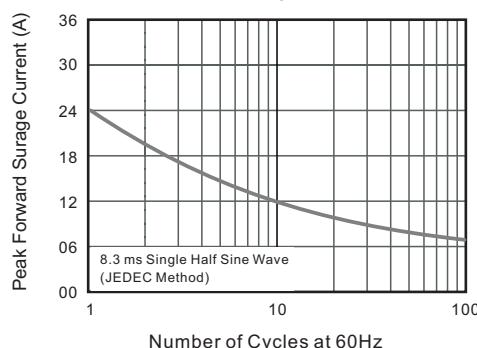
**Fig.3 Typical Forward Characteristic**



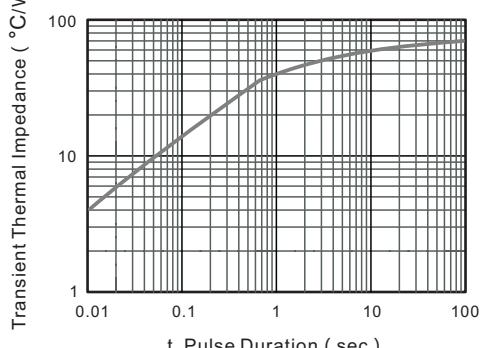
**Fig.4 Typical Junction Capacitance**



**Fig.5 Maximum Non-Repetitive Peak Forward Surge Current**



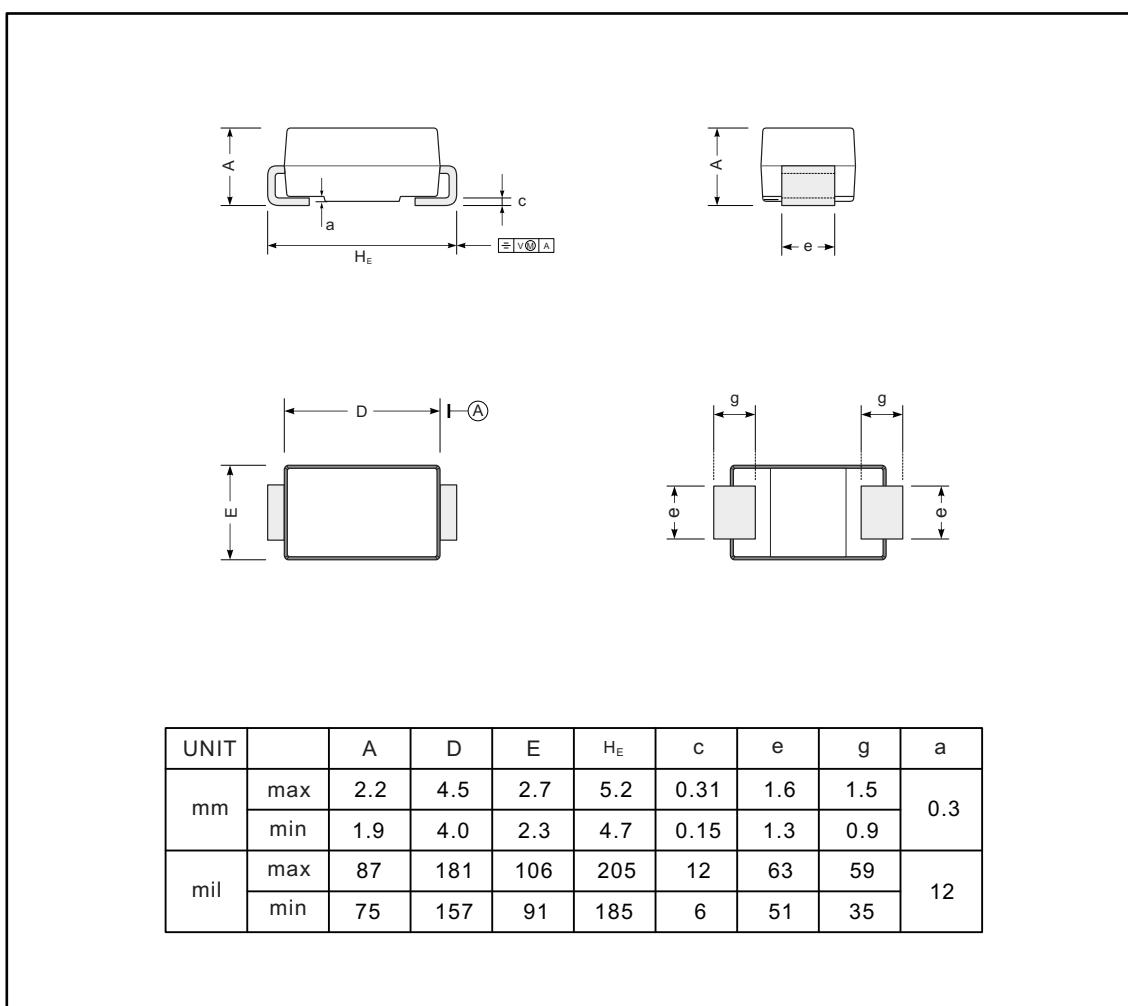
**Fig.6- Typical Transient Thermal Impedance**



## PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



The recommended mounting pad size

