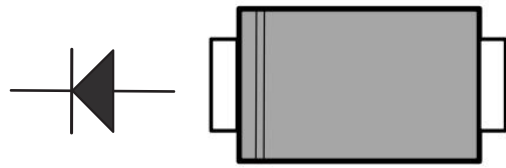


### Surface Mount Schottky Barrier Rectifier

Parameter	Value	Unit
$V_{RRM}$	20~200	V
$I_{F(AV)}$	1.0	A



DO-214AC/SMA

#### Features

- Metal silicon junction, majority carrier conduction
- For surface mounted applications
- Low power loss, high efficiency
- High forward surge current capability

#### Applications

- For use in low-voltage, high-frequency inverters, free-wheeling applications, DC/DC converters, and polarity protection circuits.

### Absolute Maximum Ratings and Characteristics (at $T_J = 25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	SS12A	SS14A	SS16A	SS18A	SS110A	SS112A	SS115A	SS120A	Units
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	20	40	60	80	100	120	150	200	V
Maximum RMS voltage	$V_{RMS}$	14	28	42	56	70	84	105	140	V
Maximum DC Blocking Voltage	$V_{DC}$	20	40	60	80	100	120	150	200	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1.0								A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$	30								A
Max Instantaneous Forward Voltage at 1A	$V_F$	0.55		0.70		0.85		0.90		V
Maximum DC Reverse Current at Rated DC Reverse Voltage	$I_R$	0.3 10			0.2 5			0.1 2		mA
Typical Junction Capacitance(1)	$C_j$	110			80					pF
Typical Thermal Resistance(2)	$R_{\theta JA}$	90								$^\circ\text{C/W}$
Operating Junction Temperature Range	$T_j$	-55 ~ +125			-55 ~ +150					$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	-55 ~ +150								$^\circ\text{C}$

#### Notes:

- (1) Measured at 1 MHz and applied reverse voltage of 4V D.C  
 (2) P.C.B. mounted with 2 .0" X 2 .0" (5 X 5 cm) copper pad areas

### Typical characteristics

Fig.1 Forward Current Derating Curve

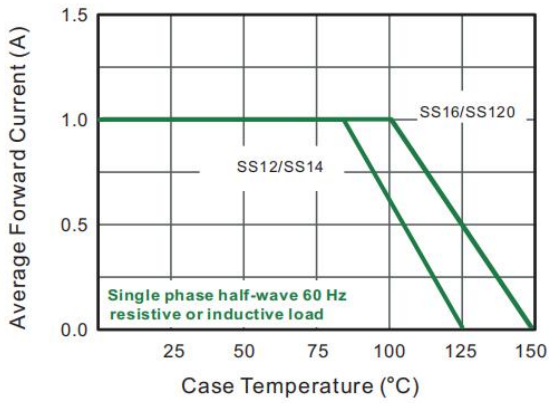


Fig.2 Typical Reverse Characteristics

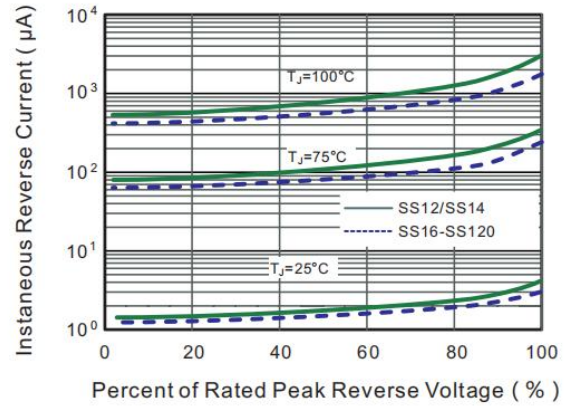


Fig.3 Typical Forward Characteristic

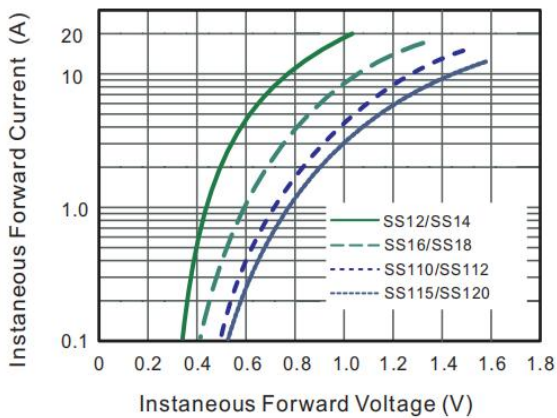


Fig.4 Typical Junction Capacitance

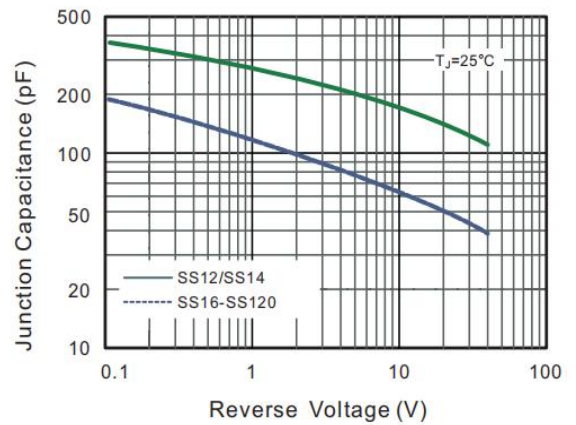


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current

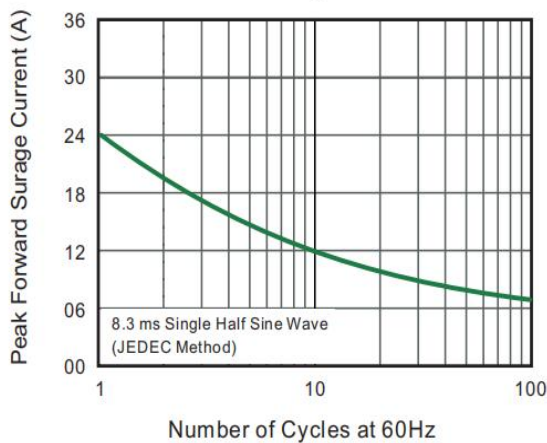
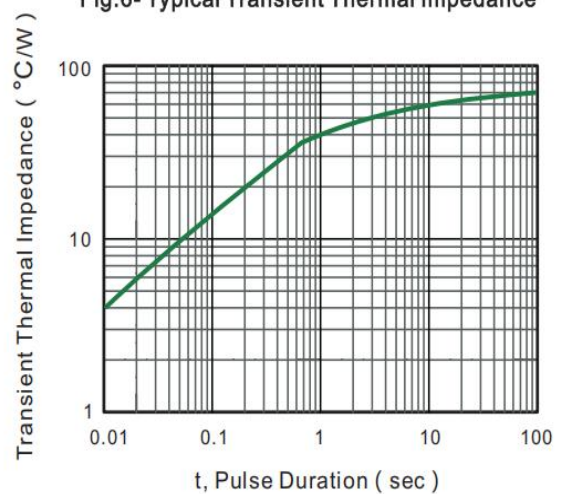
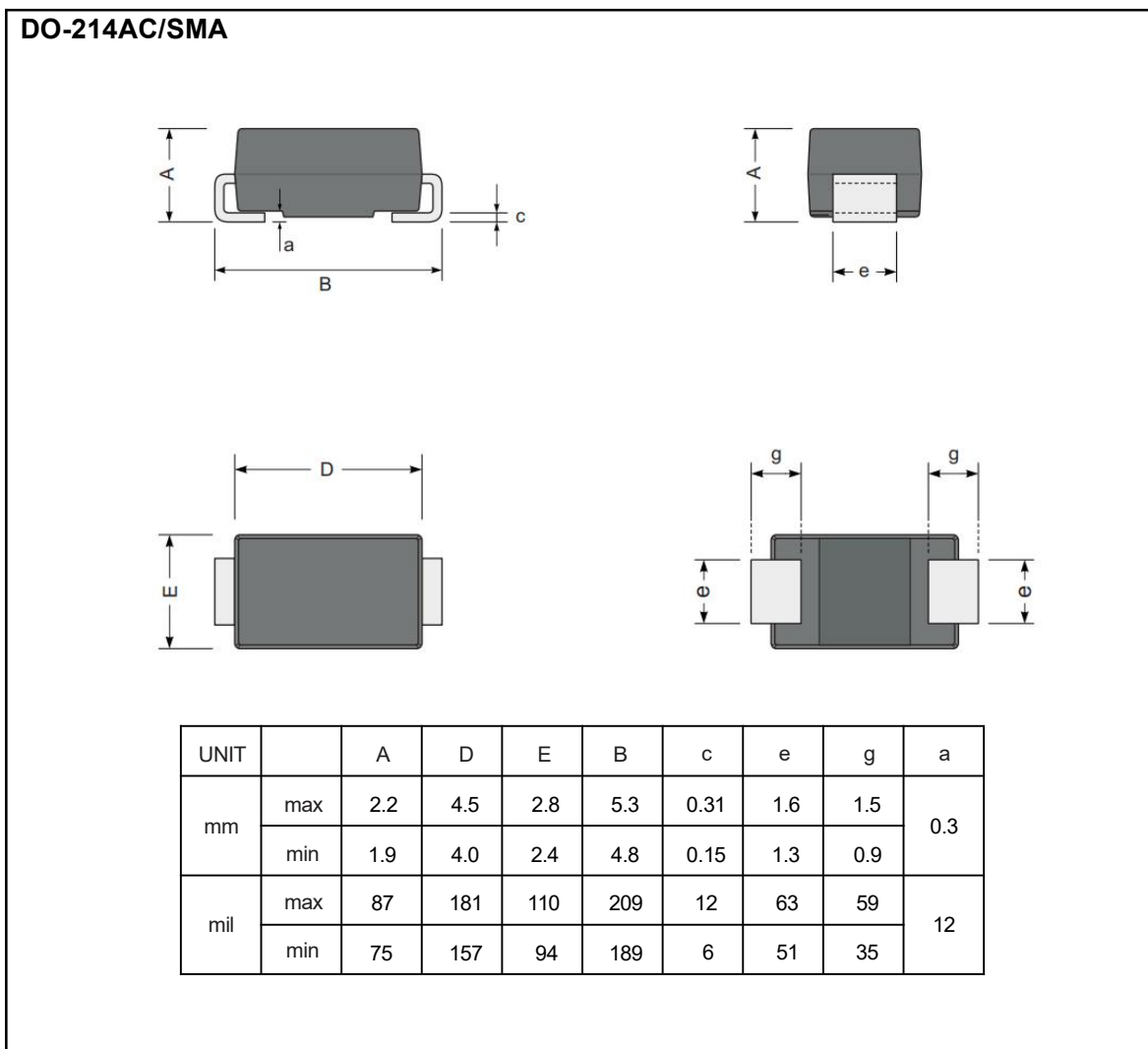


Fig.6- Typical Transient Thermal Impedance

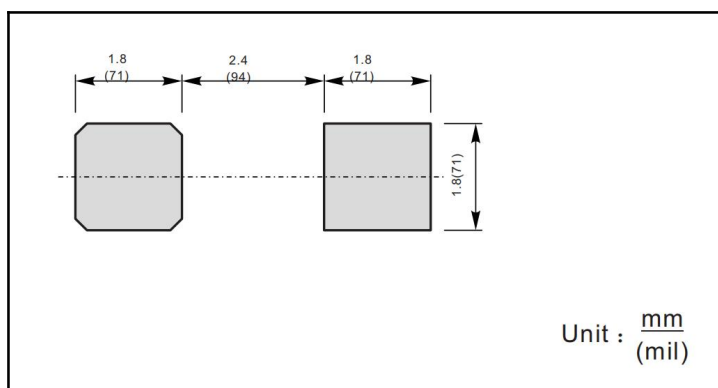


### Package outlines

Plastic surface mounted package; 2 leads



### The recommended mounting pad size



### Marking

Type number	Marking code
SS12A	SS12
SS14A	SS14
SS16A	SS16
SS18A	SS18
SS110A	SS110
SS112A	SS112
SS115A	SS115
SS120A	SS120

**\*Important Usage Information and Disclaimer**

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