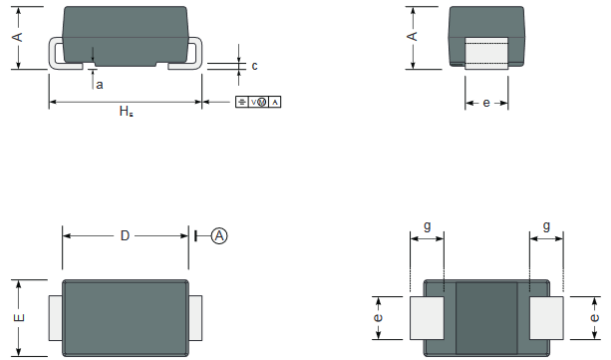


SMD Schottky Rectifiers

Primary characteristics		
Parameter	Value	Unit
Maximum repetitive peak reverse voltage	20 ~ 100	V
Maximum average forward rectified current	1.0	A

Features

- **SMA (DO-214AC)** case for easy automatic insertion.
- Pb-free and **RoHS** compliant
- Ultrafast reverse recovery time
- Low power loss, high efficiency
- High forward surge current capability
- High temperature soldering guaranteed:
260°C/10 seconds at terminals

Case dimensions								
								
SMA (DO-214AC)								
Unit	A	D	E	H _E	c	e	g	a
mm	2.05 ±0.15	4.25 ±0.25	2.5 ±0.2	4.95 ±0.25	0.23 ±0.08	1.45 ±0.15	1.2 ±0.3	0.3

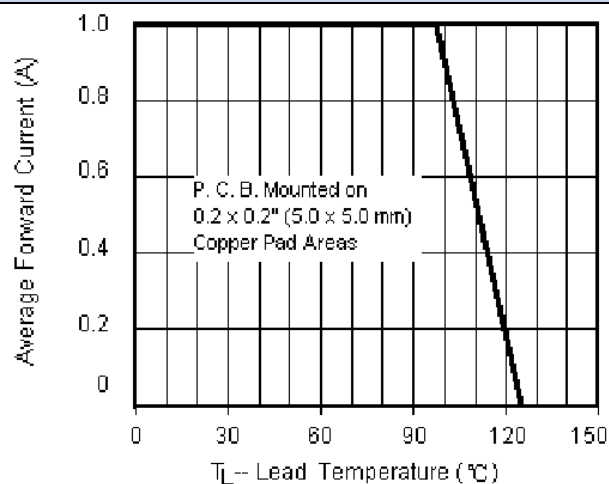
Absolute maximum ratings and general electrical characteristics (T_a = 25°C)

Parameter		Symbol	Value							Unit
			SS12	SS13	SS14	SS15	SS16	SS18	SS110	
Maximum repetitive peak reverse voltage		V _{RRM}	20	30	40	50	60	80	100	V
Maximum RMS voltage		V _{RMS}	14	21	28	35	42	56	70	
Maximum DC blocking voltage		V _{DC}	20	30	40	50	60	80	100	
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}	40							
Maximum instantaneous forward voltage @I _F =1.0A ²⁾		V _F	0.50	0.55		0.70		0.85		V
Reverse current @V _R =V _{DC}	T _a =25°C	I _R	0.5							mA
	T _a =100°C		5.0							
Voltage rate of change (rated V _R)		dv/dt	10000							V/μs
Thermal resistance from junction to lead ¹⁾		R _{θJL}	35							°C/W
Operating junction and storage temperature range		T _J , T _{STG}	-65 ~ 125							°C

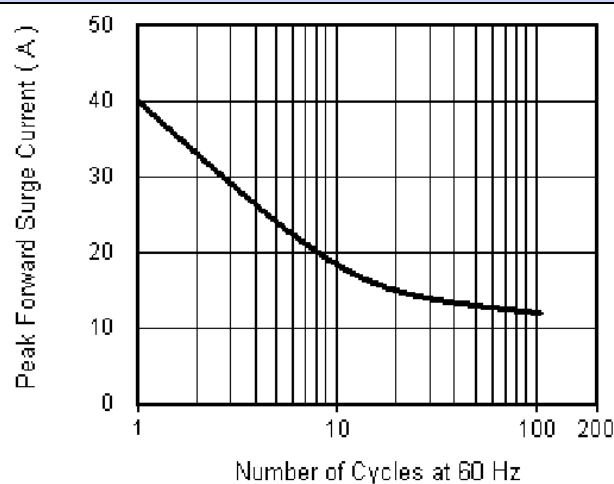
Notes:

- 1) Mounted on PCB with 0.2 x 0.2" (5.0 x 5.0 mm) copper pad areas
- 2) Pulse test: 300μs pulse width, 1% duty cycle

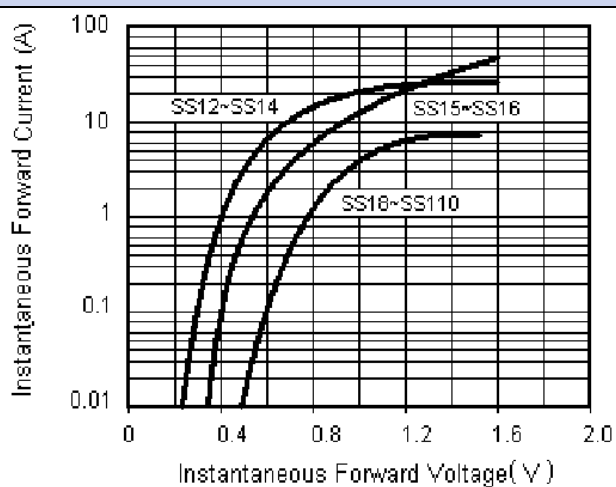
Forward current derating curve



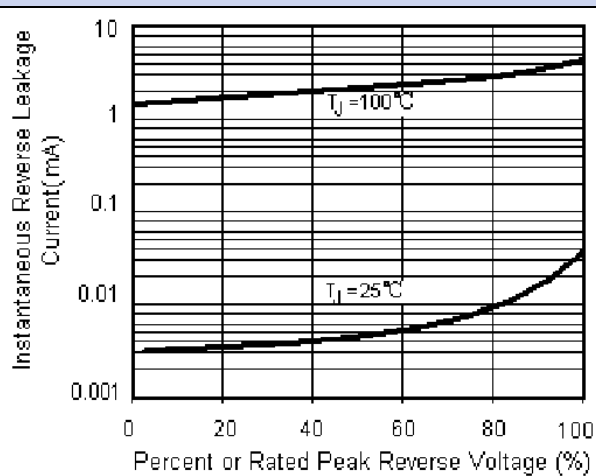
Maximum non-repetitive peak forward surge current

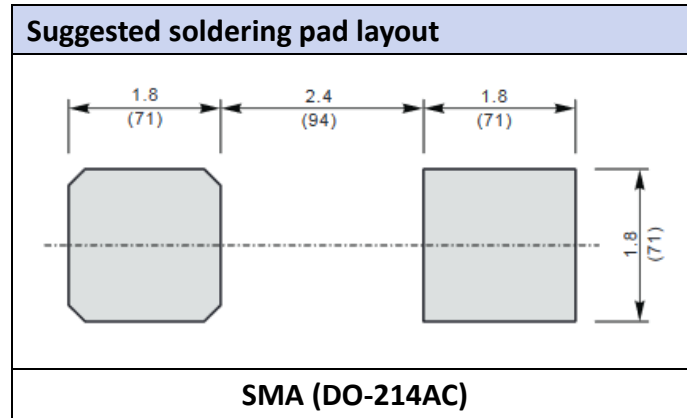


Typical instantaneous forward characteristics



Typical reverse leakage characteristics





Ordering information			
Part Number	Package	Shipping Quantity	Dimensions
SS12 ~ SS110	SMA (DO-214AC)	2 000 pcs / 7" reel	---

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