

<b>THERMAL PERFORMANCE</b>			
PARAMETER	SYMBOL	TYP	UNIT
Junction-to-lead thermal resistance	$R_{\theta JL}$	28	°C/W
Junction-to-ambient thermal resistance	$R_{\theta JA}$	88	°C/W

<b>ELECTRICAL SPECIFICATIONS</b> ( $T_A = 25^\circ\text{C}$ unless otherwise noted)									
PARAMETER		CONDITIONS	SYMBOL	TYP	MAX	UNIT			
Forward voltage <sup>(1)</sup>	SS12 SS13 SS14	$I_F = 1\text{A}, T_J = 25^\circ\text{C}$	$V_F$	-	0.50	V			
	SS15 SS16			-	0.75	V			
	SS19 SS110			-	0.80	V			
	SS115			-	0.95	V			
	SS12 SS13 SS14	$I_F = 1\text{A}, T_J = 100^\circ\text{C}$		-	0.40	V			
	SS15 SS16			-	0.65	V			
	SS19 SS110			-	0.70	V			
	SS115			-	0.85	V			
	Reverse current @ rated $V_R$ <sup>(2)</sup>			SS12 SS13 SS14 SS15 SS16	$T_J = 25^\circ\text{C}$	$I_R$	-	0.2	mA
				SS19 SS110 SS115			-	0.1	mA
SS12 SS13 SS14		$T_J = 100^\circ\text{C}$	-	6	mA				
SS15 SS16			-	5	mA				
SS19 SS110 SS115			-	-	mA				
SS12 SS13 SS14		$T_J = 125^\circ\text{C}$	-	-	mA				
SS15 SS16			-	-	mA				
SS19 SS110 SS115			-	2	mA				

**Notes:**

1. Pulse test with PW = 0.3ms
2. Pulse test with PW = 30ms

**ORDERING INFORMATION**

<b>ORDERING CODE<sup>(1)</sup></b>	<b>PACKAGE</b>	<b>PACKING</b>
SS1x	DO-214AC (SMA)	7,500 / Tape & Reel

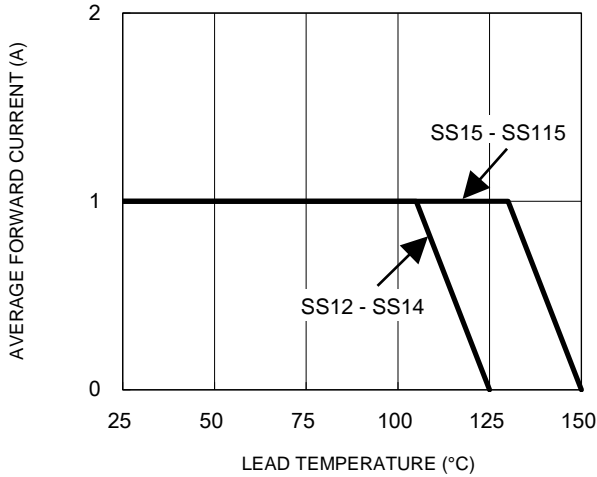
**Notes:**

1. “x” defines voltage from 20V(SS12) to 150V(SS115)

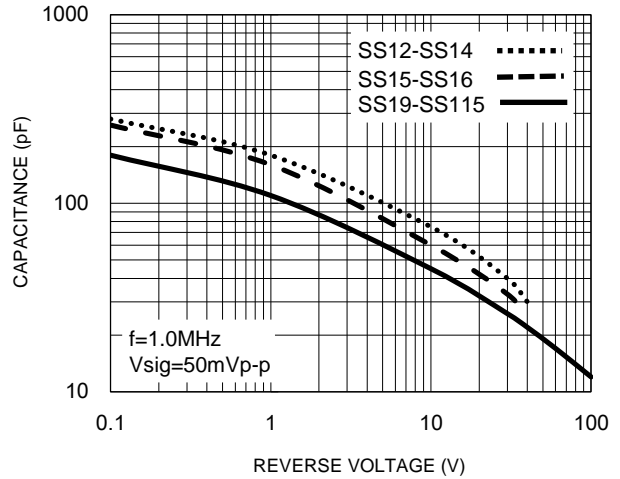
**CHARACTERISTICS CURVES**

( $T_A = 25^\circ\text{C}$  unless otherwise noted)

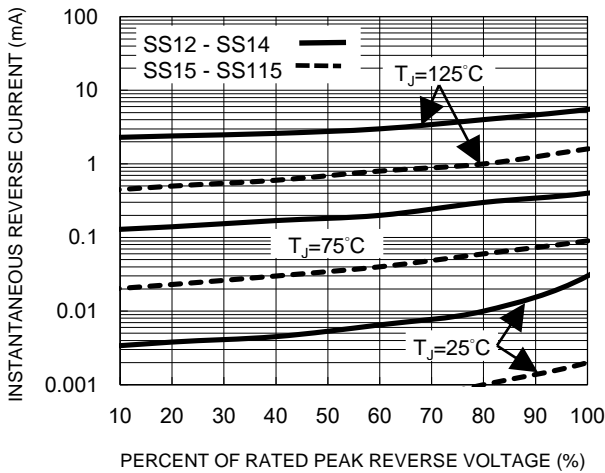
**Fig.1 Forward Current Derating Curve**



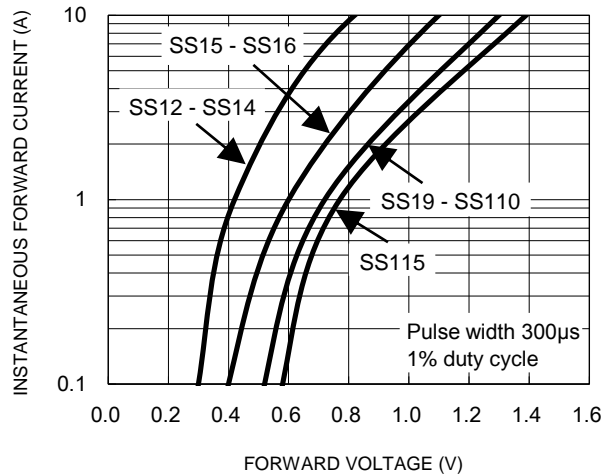
**Fig.2 Typical Junction Capacitance**



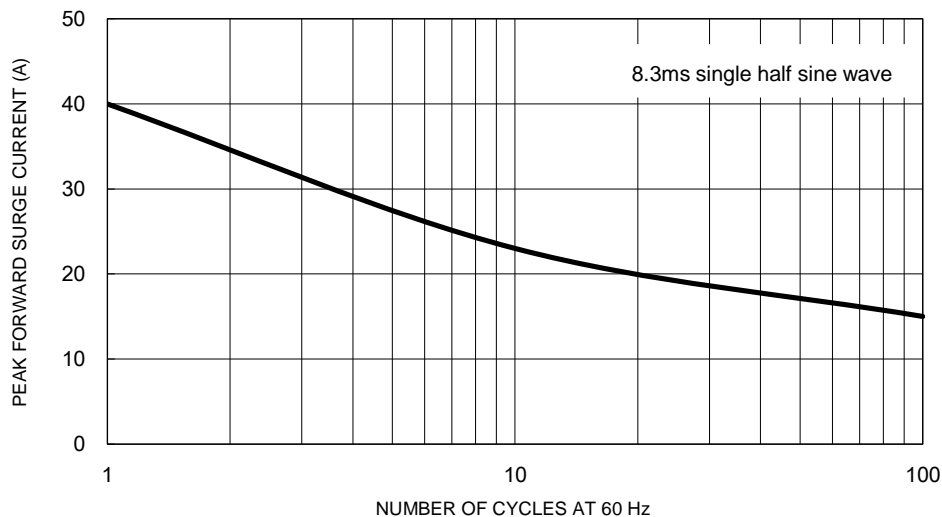
**Fig.3 Typical Reverse Characteristics**



**Fig.4 Typical Forward Characteristics**



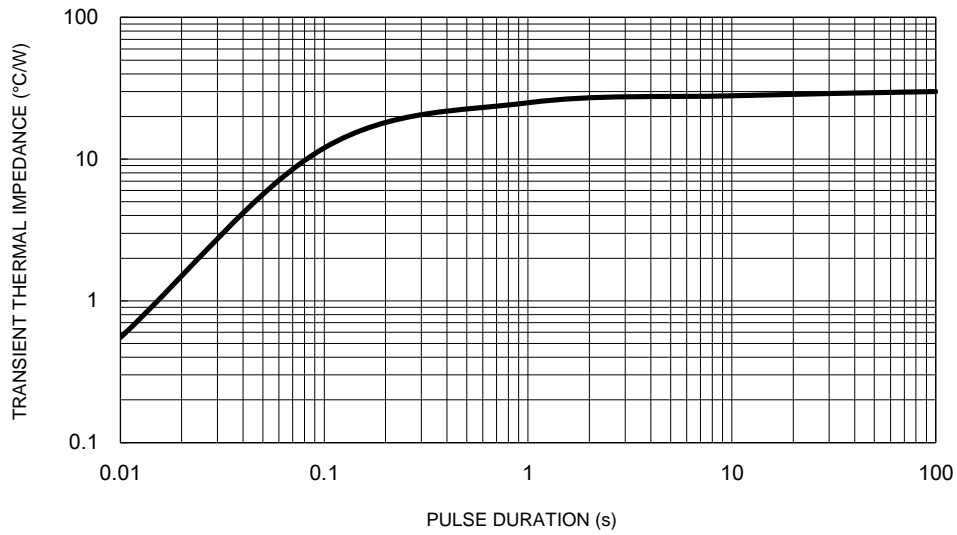
**Fig.5 Maximum Non-Repetitive Forward Surge Current**



**CHARACTERISTICS CURVES**

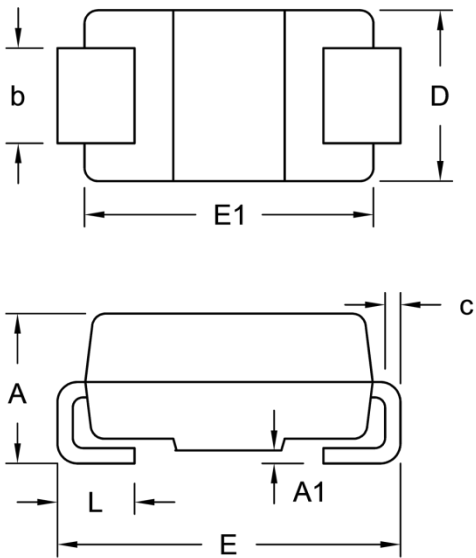
( $T_A = 25^\circ\text{C}$  unless otherwise noted)

**Fig.6 Typical Transient Thermal Characteristics**



**PACKAGE OUTLINE DIMENSIONS**

DO-214AC (SMA)



DIM.	Unit (mm)		Unit (inch)	
	Min.	Max.	Min.	Max.
A	1.99	2.50	0.078	0.098
A1	0.10	0.20	0.004	0.008
b	1.27	1.58	0.050	0.062
c	0.15	0.31	0.006	0.012
D	2.29	2.83	0.090	0.111
E	4.95	5.33	0.195	0.210
E1	4.06	4.60	0.160	0.181
L	0.90	1.41	0.035	0.056

**SUGGESTED PAD LAYOUT**



Symbol	Unit (mm)	Unit (inch)
A	1.68	0.066
B	1.52	0.060
C	3.93	0.155
D	2.41	0.095
E	5.45	0.215

**MARKING DIAGRAM**



- P/N = Marking Code
- G = Green Compound
- YW = Date Code
- F = Factory Code

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