

THERMAL PERFORMANCE			
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

ELECTRICAL SPECIFICATIONS ($T_A = 25^\circ\text{C}$ unless otherwise noted)						
PARAMETER		CONDITIONS	SYMBOL	TYP	MAX	UNIT
Forward voltage ⁽¹⁾	SS12H SS13H SS14H	$I_F = 1\text{A}, T_J = 25^\circ\text{C}$	V_F	-	0.50	V
	SS15H SS16H			-	0.75	V
	SS19H SS110H			-	0.80	V
	SS115H			-	0.95	V
	SS12H SS13H SS14H	$I_F = 1\text{A}, T_J = 100^\circ\text{C}$		-	0.40	V
	SS15H SS16H			-	0.65	V
	SS19H SS110H			-	0.70	V
	SS115H			-	0.85	V
Reverse current @ rated V_R ⁽²⁾	SS12H SS13H SS14H SS15H SS16H	$T_J = 25^\circ\text{C}$	I_R	-	0.2	mA
	SS19H SS110H SS115H			-	0.1	mA
	SS12H SS13H SS14H	$T_J = 100^\circ\text{C}$		-	6	mA
	SS15H SS16H			-	5	mA
	SS19H SS110H SS115H			-	-	mA
	SS12H SS13H SS14H	$T_J = 125^\circ\text{C}$		-	-	mA
	SS15H SS16H			-	-	mA
	SS19H SS110H SS115H			-	2	mA

Notes:

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

ORDERING INFORMATION

ORDERING CODE⁽¹⁾	PACKAGE	PACKING
SS1xH	DO-214AC (SMA)	7,500 / Tape & Reel

Notes:

1. “x” defines voltage from 20V(SS12H) to 150V(SS115H)

CHARACTERISTICS CURVES

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

Fig.1 Forward Current Derating Curve

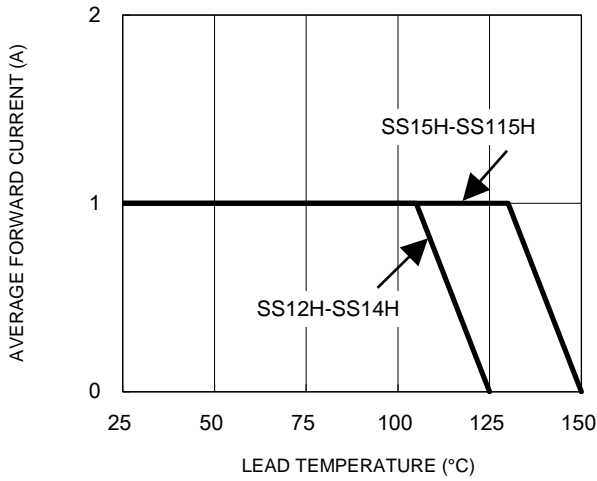


Fig.2 Typical Junction Capacitance

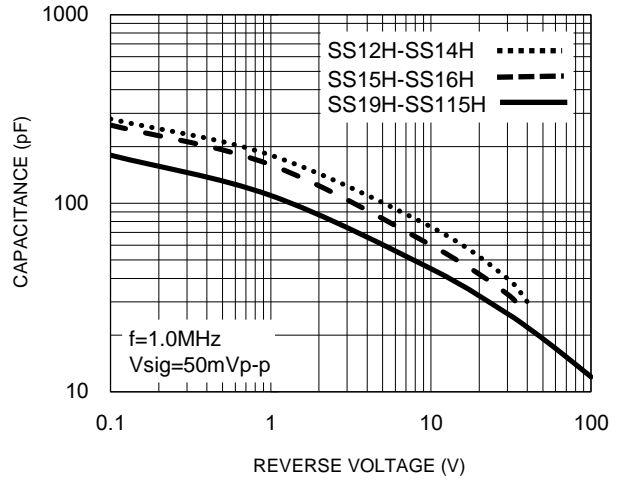


Fig.3 Typical Reverse Characteristics

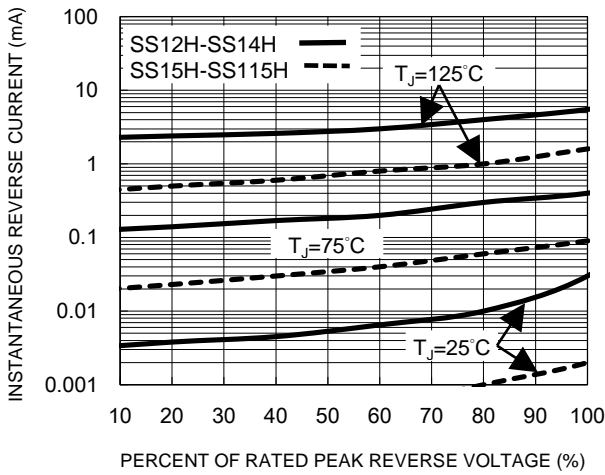


Fig.4 Typical Forward Characteristics

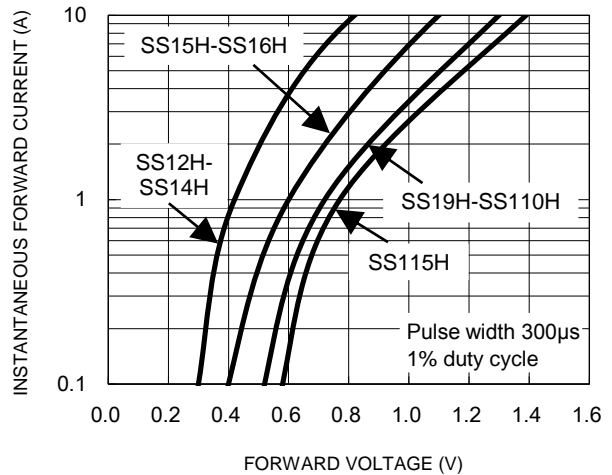
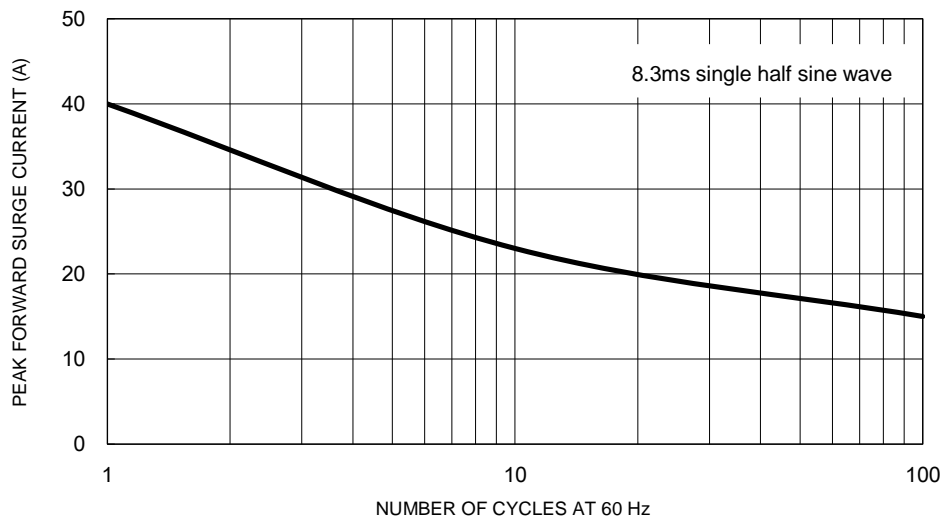


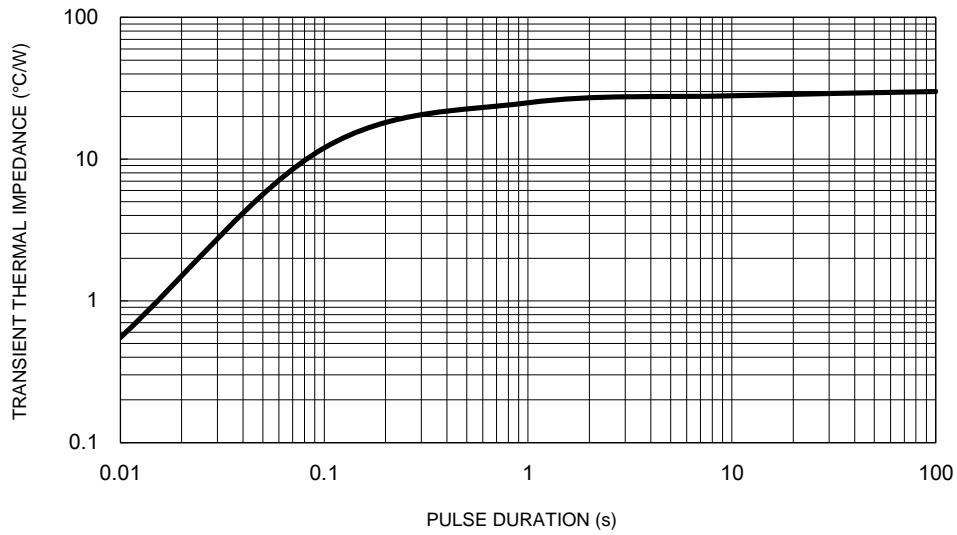
Fig.5 Maximum Non-Repetitive Forward Surge Current



CHARACTERISTICS CURVES

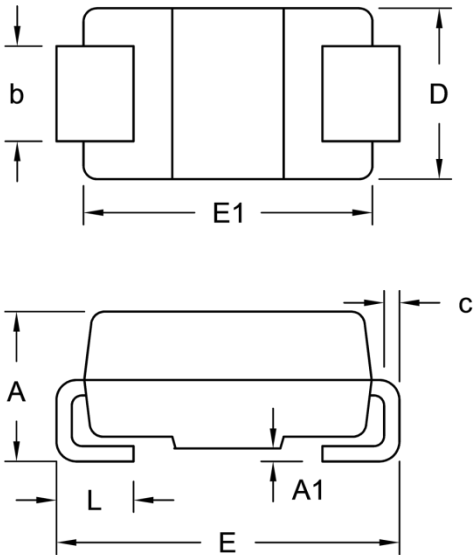
($T_A = 25^\circ\text{C}$ unless otherwise noted)

Fig.6 Typical Transient Thermal Characteristics



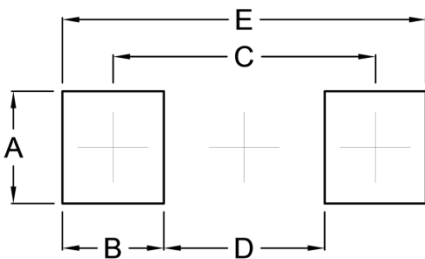
PACKAGE OUTLINE DIMENSIONS

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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