THERMAL PERFORMANCE				
PARAMETER	SYMBOL	TYP	UNIT	
Junction-to-lead thermal resistance	$R_{\Theta JL}$	20	°C/W	
Junction-to-ambient thermal resistance	$R_{\Theta JA}$	75	°C/W	

ELECTRICAL SPECIFICATIONS (T _A = 25°C unless otherwise noted)					
PARAMETER	CONDITIONS	SYMBOL	TYP	MAX	UNIT
Forward voltage ⁽¹⁾	I _F = 1A, T _J = 25°C	V _F	-	0.9	V
	T _J = 25°C	I _R	-	1	μA
Reverse current @ rated V _R ⁽²⁾	T _J = 100°C		-	10	μA
	T _J = 125°C		-	50	μA
Junction capacitance	1MHz, V _R = 4.0V	CJ	25	-	pF
Reverse recovery time	$I_F = 0.5A, I_R = 1.0A,$ $I_{rr} = 0.25A$	t _{rr}	-	25	ns

Notes:

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

ORDERING INFORMATION			
ORDERING CODE ⁽¹⁾	PACKAGE	PACKING	
ESH2xA	DO-214AC (SMA)	7,500 / Tape & Reel	

Notes:

1. "x" defines voltage from 100V(ESH2BA) to 200V(ESH2DA)



CHARACTERISTICS CURVES

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

Fig.1 Forward Current Derating Curve

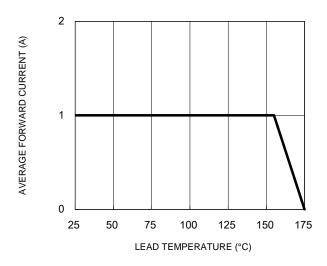


Fig.3 Typical Reverse Characteristics

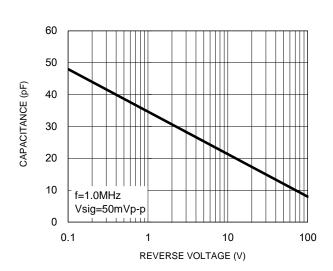
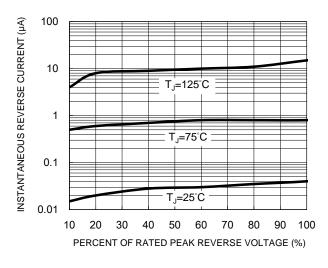


Fig.2 Typical Junction Capacitance

Fig.4 Typical Forward Characteristics



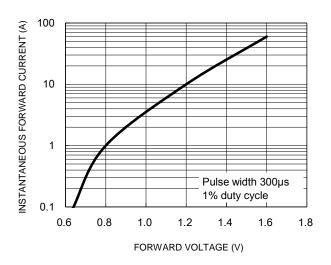
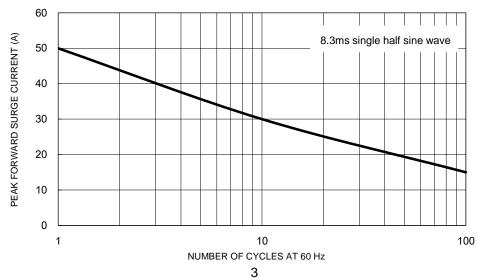


Fig.5 Maximum Non-Repetitive Forward Surge Current

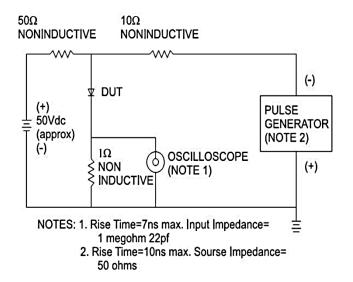


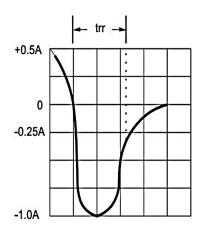
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CHARACTERISTICS CURVES

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

Fig.6 Reverse Recovery Time Characteristic and Test Circuit Diagram

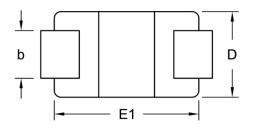


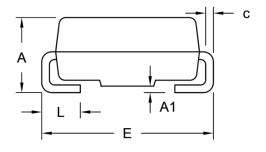




PACKAGE OUTLINE DIMENSIONS

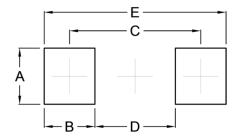
DO-214AC (SMA)





DIM. Unit		(mm) Unit		(inch)	
Dilvi.	Min.	Max.	Min.	Max.	
Α	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	
С	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)
Α	1.68	0.066
В	1.52	0.060
С	3.93	0.155
D	2.41	0.095
E	5.45	0.215

MARKING DIAGRAM



= Marking Code P/N G = Green Compound

= Date Code ΥW F = Factory Code



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