

Features

- Average Forward Current: I_{F(AV)}=1A
- Polarity: Color band denotes cathode

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)
ES1A-E3/61T ~ES1J-E3/61T	SMA (DO-214AC)	ES1x	2000







Maximum Ratings (Ta=25°C unless otherwise noted)

Item	Symbol	Unit	Test Conditions	ES1								
item				Α	В	С	D	Е	G	Н	J	
Repetitive Peak Reverse Voltage	V_{RRM}	V		50	100	150	200	300	400	500	600	
Maximum RMS Voltage	V_{RMS}	٧		35	70	105	140	210	280	350	420	
Average Forward Current	I _{F(AV)}	Α	60Hz Half-sine wave, Resistance load, T _L =75℃	1.0								
Surge(Non-repetitive)Forward Current	I _{FSM}	Α	60Hz Half-sine wave, 1 cycle,Ta=25℃	30								
Operation Junction and Storage Temperature Range	T_J, T_STG	$^{\circ}$		-55 ~ +150								

Electrical Characteristics(Ta=25°C unless otherwise specified)

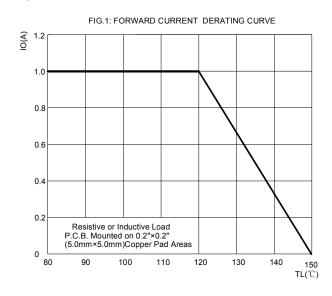
14	Symbol Unit		Test Condition			ES1							
Item			rest Condition		Α	В	С	D	Е	G	Н	J	
Peak Forward Voltage	V_{F}	V	I _F =1.0A			C	.95			1.25	1.70		
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =	35									
Peak Reverse Current	I _{RRM1}		V _{RM} =V _{RRM}	Ta=25°C	5								
	I _{RRM2}	μA		Ta=100°C	100								
Thermal	$R_{\theta J-A}$	Between junction and ambient			85								
Resistance(Typical)	$R_{\theta J-L}$	°C/W	Between junctio	n and terminal	35								

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.2" \times 0.2" (5.0 mm \times 5.0 mm) copper pad areas



Typical Characteristics



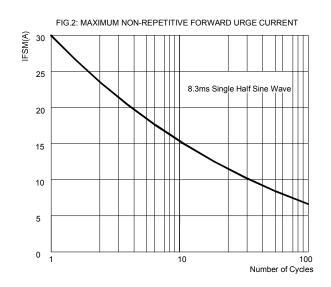


FIG.3: TYPICAL FORWARD CHARACTERISTICS

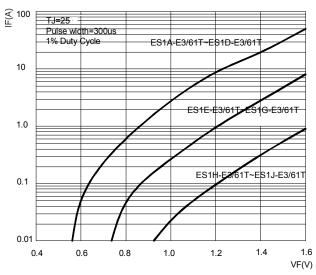


FIG.4: TYPICAL REVERSE CHARACTERISTICS

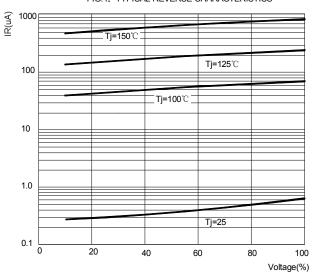
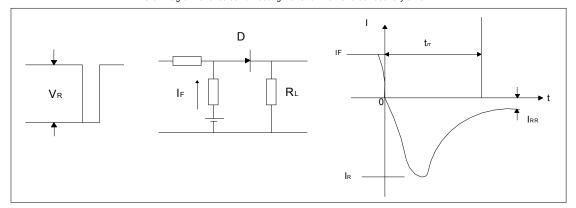
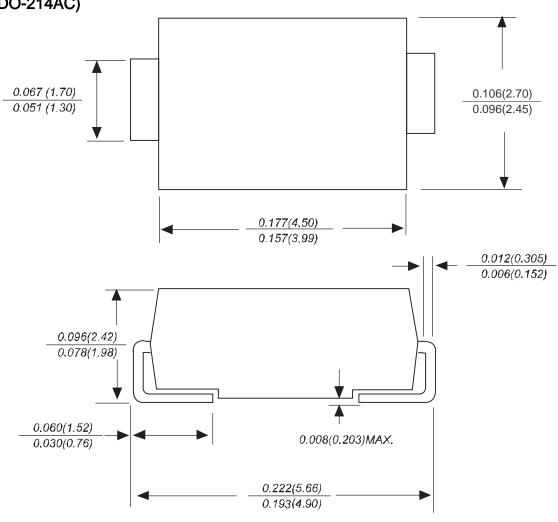


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





Package Outline Dimensions SMA(DO-214AC)



Dimensions in inches and (millimeters)

ES1A-E3/61T~ES1J-E3/61T Super Fast Recovery Rectifier Diodes

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