

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-ES1J	SMA	ES1 ★	2000				





MAXIMUM RATINGS (Ta=25 unless otherwise noted)

Item	Symbol	Unit	Test Conditions	ES1								
			rest Conditions		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)}	А	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}	°C		-55 ~ +150								

ELECTRICAL CHARACTERISTICS (Ta=25 unless otherwise specified)

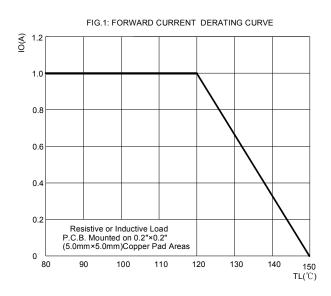
lk	C: mak al	l lmit	Toot Con	dition	ES1								
Item	Symbol	Unit	t Test Condition		Α	В	С	D	Е	G	Н	J	
Peak Forward Voltage	V_{F}	V	I _F =1.0A			0.95 1.25			1.25	1.70			
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =	35									
Peak Reverse Current	I _{RRM1}			Ta =25°C	5								
	I _{RRM2}	μ A $V_{RM}=V_{RRM}$	Ta=100℃	100									
Thermal	$R_{\theta J-A}$		Between junction	at 85									
Resistance(Typical)	$R_{\theta J-L}$	°C/W	Between junction	35									

Notes:

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



Typical Characteristics



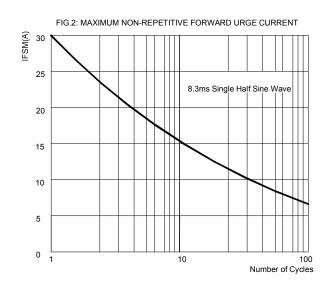


FIG.3: TYPICAL FORWARD CHARACTERISTICS

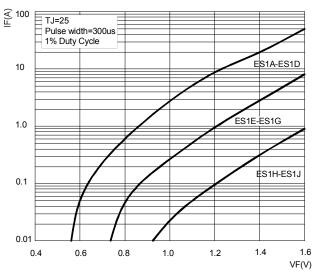


FIG.4: TYPICAL REVERSE CHARACTERISTICS

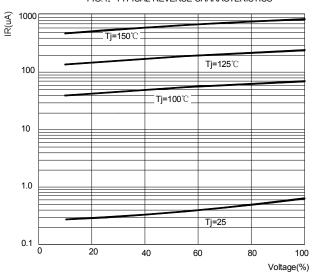
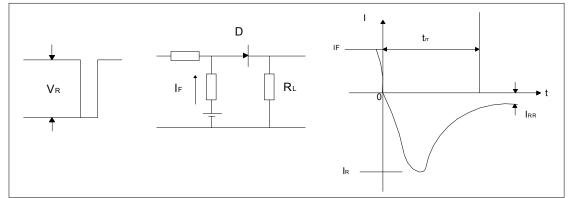
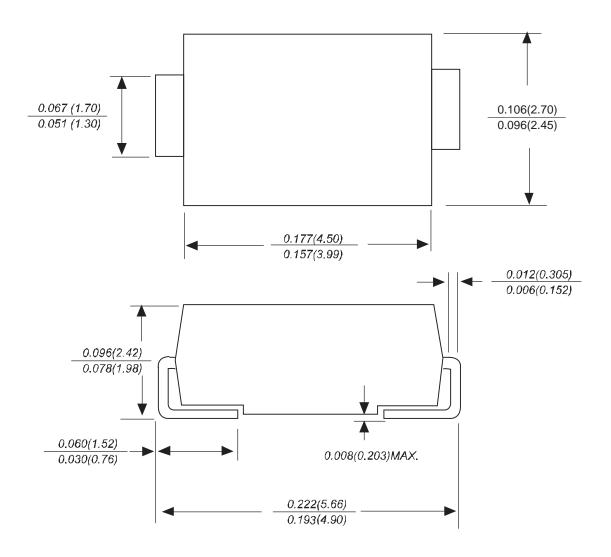


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





SMA Package Outline Dimensions



Dimensions in inches and (millimeters)



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