

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				





★:FromA-J

MAXIMUM RATINGS (Ta=25 unless otherwise noted)

ltem	Symbol	Unit	Test Conditions	ES1								
	Symbol		Test conditions		В	С	D	Ε	G	Н	J	
Repetitive Peak Reverse Voltage	V _{RRM}	V		50	100	150	200	300	400	500	600	
Maximum RMS Voltage	V _{RMS}	V		35	70	105	140	210	280	350	420	
Average Forward Current	I _{F(AV)}	А	60Hz Half-sine wave, Resistance load, T_L =75 °C	1.0								
Surge(Non-repetitive)Forward Current	I _{FSM}	А	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)

14	Ormak al Unit		Test Condition			ES1								
ltem	Symbol	Unit	Test Condition			В	С	D	Ε	G	Н	J		
Peak Forward Voltage	V_{F}	V	I _F =1.0A			C	.95		1.25			1.70		
Maximum reverse recovery time	tr	ns	I _F =0.5A,I _R =	35										
Peak Reverse Current	I _{RRM1}		V _{RM} =V _{RRM}	Ta =25℃	5									
	I _{RRM2}	μA		Ta =100℃	100									
Thermal	$R_{\Theta_{J}-A}$		Between junctio	nt 85										
Resistance(Typical)	R _{θJ-L}	°C/W	Between junction and terminal			35								

Notes:

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



Typical Characteristics

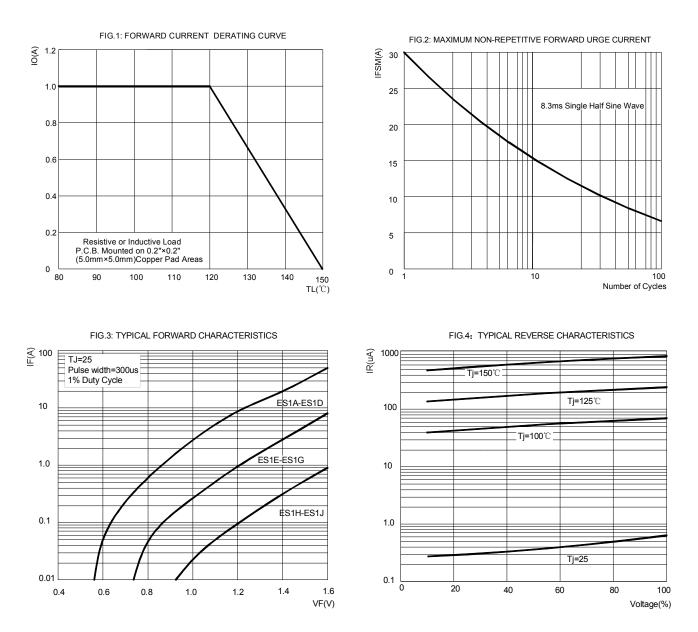
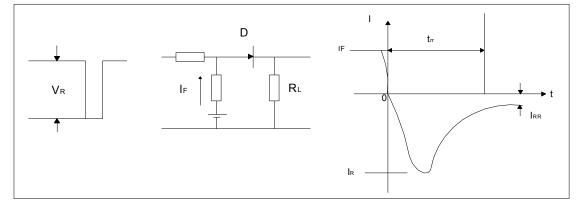
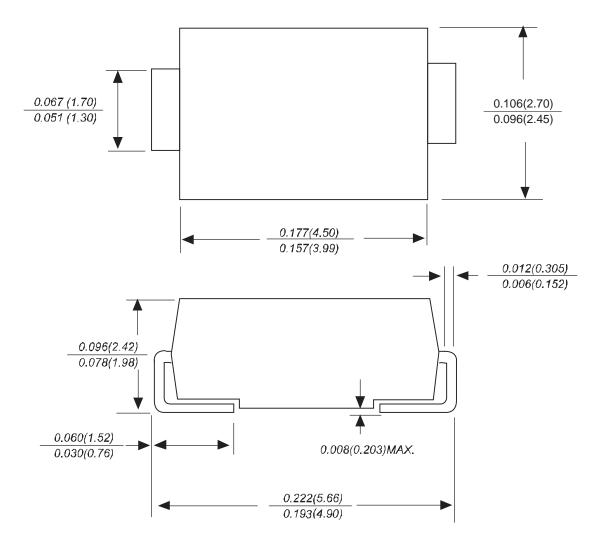


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





SMA Package Outline Dimensions



Dimensions in inches and (millimeters)



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