

Features

- Average Forward Current: I_{F(AV)}=2A
- Polarity: Color band denotes cathode

Package Marking and Ordering Information

Product ID	Pack	Marking	Qty(PCS)				
ES2Dx-13-F	SMA	ES2x	2000				







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

		Unit		ES2									
Item	Symbol		Test Conditions	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}	V		35	70	105	140	210	280	350	420		
Average Forward Current	I _{F(AV)}	А	60Hz Half-sine wave, Resistance load, Ta=110°C	2.0									
Surge(Non-repetitive)Forward Current	I _{FSM}	А	60Hz Half-sine wave, 1 cycle, Ta=25°C	50									
Operation Junction and Storage Temperature Range	T _J ,T _{STG}	°C		-55 ~ + 150									

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

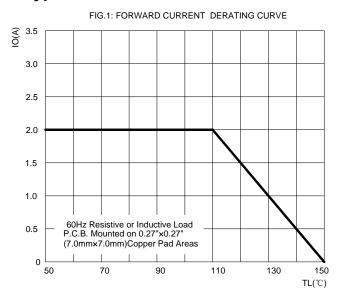
						ES2								
Item	Symbol	Unit	Test Condition		Α	В	С	D	Е	G	Н	J		
Peak Forward Voltage	V _F	٧	I _F =2	0.95				1.25		1.7				
Maximum reverse recovery time	t _{rr}	ns	I _F =0.5A,I _R =	35										
Peak Reverse Current	I _{RRM1}		V _{RM} =V _{RRM}	T _a =25°C	5.0									
	I _{RRM2}	μA		T _a =100°C	100									
Thermal	$R_{\theta J-A}$	°C/W	Between juncti	on and ambient	75									
Resistance(Typical)	$R_{\theta J\text{-L}}$	<i>5/ VV</i>	Between junction and terminal			20								

Notes:

Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.27" x 0.27" (7.0 mm x 7.0 mm) copper pad areas



Typical Characteristics



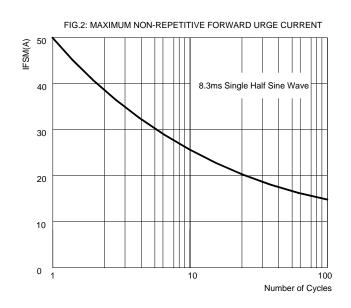


FIG.3: TYPICAL FORWARD CHARACTERISTICS

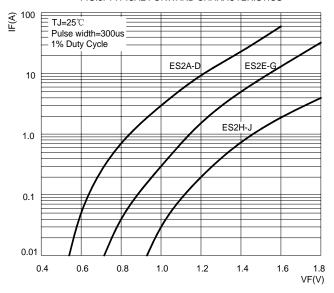


FIG.4: TYPICAL REVERSE CHARACTERISTICS

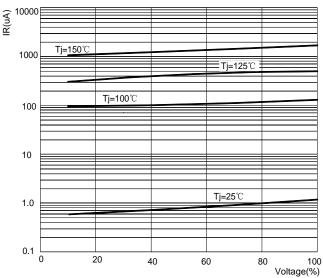
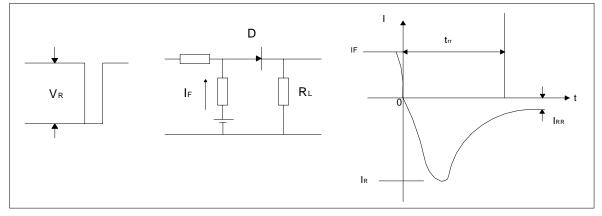
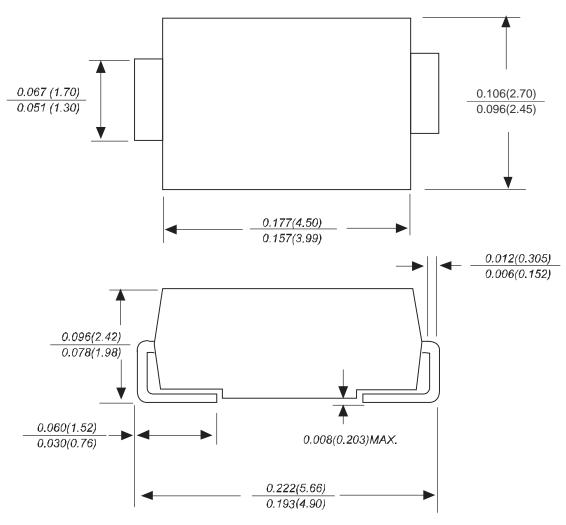


FIG.5: Diagram of circuit and Testing wave form of reverse recovery time





Package Outline Dimensions SMA



Dimensions in inches and (millimeters)



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