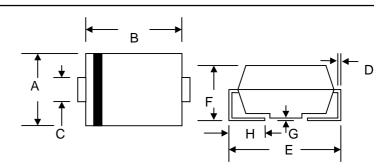


1.0A SURFACE MOUNT SUPER FAST RECTIFIER

Features

- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Surge Overload Rating to 30A Peak
- Low Power Loss
- Super-Fast Recovery Time
- Plastic Case Material has UL Flammability Classification Rating 94V-O



Mechanical Data

- Case: Low Profile Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.064 grams (approx.)

SMA/DO-214AC					
Dim	Min Max				
Α	2.50 2.90				
В	4.00 4.60				
С	1.40	1.60			
D	0.152	0.305			
Е	4.80	5.28			
F	2.00	2.44			
G	0.051	0.203			
Н	0.76	1.52			
All Dimensions in mm					

Maximum Ratings and Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic		Symbol	ES1A	ES1B	ES1C	ES1D	ES1E	ES1G	ES1J	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		Vrrm Vrwm Vr	50	100	150	200	300	400	600	٧
RMS Reverse Voltage		VR(RMS)	35	70	105	140	210	280	420	V
Average Rectified Output Current	@T _L = 120°C	lo	1.0				Α			
Non-Repetitive Peak Forward Surgr 8.3ms Single half sine-wave supering rated load (JEDEC Method)		İFSM	30			А				
Forward Voltage	@I _F = 1.0A	VFM	0.95 1.25 1.7				1.7	V		
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 100°C	IRM	5.0 500					μA		
Reverse Recovery Time (Note 1)		trr				35				nS
Typical Junction Capacitance (Note 2)		Cj	10					pF		
Typical Thermal Resistance (Note 3)		R_{θ} JL	35						K/W	
Operating and Storage Temperature Range		Тj, Tsтg	-65 to +150					°C		

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$,

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
- 3. Mounted on P.C. Board with 8.0mm² land area.

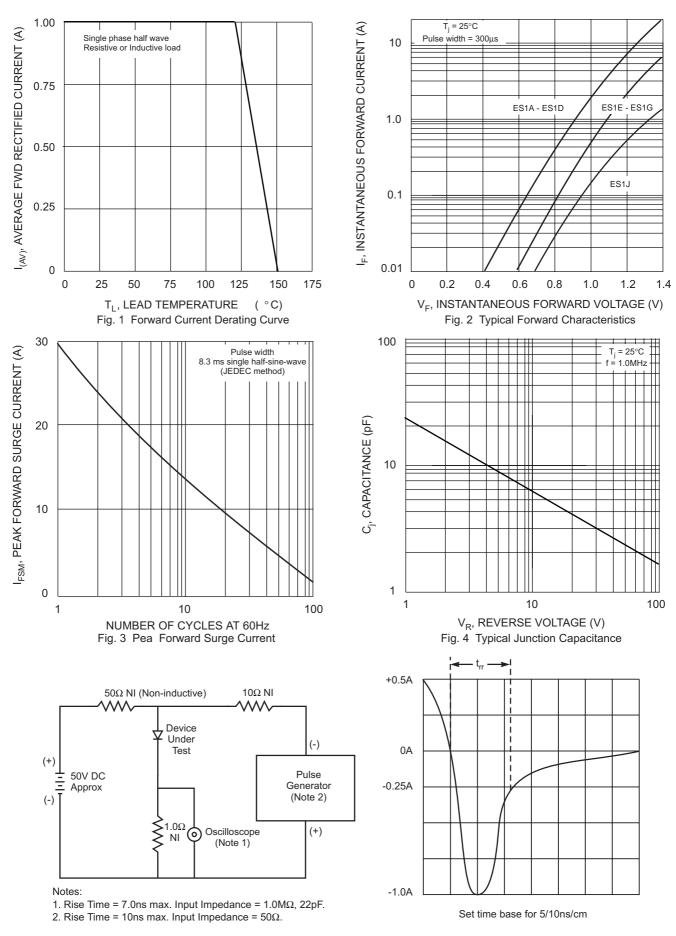


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

ORDERING INFORMATION

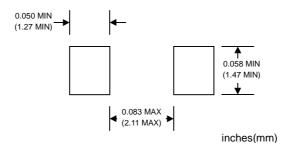
Product No.◆	Package Type	Shipping Quantity			
ES1A-T1	SMA	1800/Tape & Reel			
ES1A-T3	SMA	7500/Tape & Reel			
ES1B-T1	SMA	1800/Tape & Reel			
ES1B-T3	SMA	7500/Tape & Reel			
ES1C-T1	SMA	1800/Tape & Reel			
ES1C-T3	SMA	7500/Tape & Reel			
ES1D-T1	SMA	1800/Tape & Reel			
ES1D-T3	SMA	7500/Tape & Reel			
ES1E-T1	SMA	1800/Tape & Reel			
ES1E-T3	SMA	7500/Tape & Reel			
ES1G-T1	SMA	1800/Tape & Reel			
ES1G-T3	SMA	7500/Tape & Reel			
ES1J-T1	SMA	1800/Tape & Reel			
ES1J-T3	SMA	7500/Tape & Reel			

Products listed in **bold** are WTE **Preferred** devices.

T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.

RECOMMENDED FOOTPRINT



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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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We power your everyday.