Trimming Potentiometers • Bridge Rectifiers • Diodes & Transistors • Surge Arresters • OSC & Quartz Crystals • MLCC & Tantalum Capacitors

SURFACE MOUNT SUPER FAST RECTIFIERVOLTAGE RANGE 50 to 600 VoltsCURRENT 1.0 Ampere

FEATURES

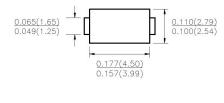
Plastic package has underwrites laboratory flammability Classification 94V-0 Glass passivated chip junction Built-in strain relief Super Fast switiching speed for high efficiency High temperature soldering guaranteed 250°C/10 seconds

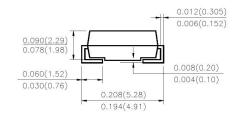
MECHANICAL DATA

Case: Transfer molded plastic Terminals: Solder plated, solderable per MIL-STD-750, Method 2026 Polarity: Color band denotes cathode end Weight: 0.002ounce, 0.064 gram



ES1A THRU





Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25 $^{\circ}$ C ambient temperature unless otherwise specified , Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load derate current by 20%

PARAMETER		SYMBOL	ES1A	ES1B	ES1C	ES1D	ES1E	ES1G	ES1J	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage		V _{RMS}	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current At $T_A = 55 \degree C$ (NOTE 1)		I _(AV)	1.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on		I _{FSM}	30						Amps	
Maximum Instantaneous Forward Voltage at 1.0A		V _F	0.95 1				25	1.7	Volts	
Maximum DC Reverse Current at rated DC blocking voltage at	T _A = 25℃	- I _R	5.0							μA
	T _A = 125℃					100	100			
Maximuml Reverse Recovery Time Test conditions IF =0.5A, IR =1.0A, IRR =0.25A		t _{rr}	35							nS
Typical Junction Capacitance		CJ	10			8			pF	
Typical Thermal Resistance (NOTE 1)		R _{0JA}	88							°CNW
		$R_{\theta JL}$	28							
Operating Junction Temperature		TJ	-55 to +150							°C
Storage Temperature Range		T _{STG}	-55 to +150						°C	

Notes:Thermal resistance from Junction to ambient and from junction to lead mounted on PCB. with $0.2 \times 0.2"(5.0 \times 5.0 \text{ mm})$ copper pad areas.

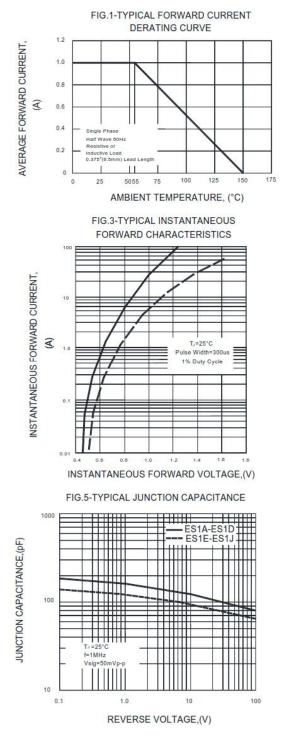
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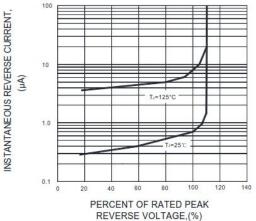
RATINGS AND CHARACTERISTIC CURVES

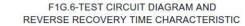


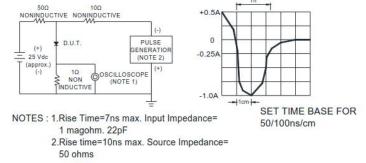
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FIG.4-TYPICAL REVERSE CHARACTERISTICS







Note: Specifications are subject to change without notice.

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