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

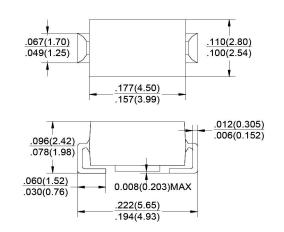
FEATURES

Plastic package has underwrites laboratory flammability Classification 94V-0 Built-in strain relief Super Fast switching 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

SMA - J (DO-214AC)



ES1A THRU ES1J

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 | | VF | 0.95 1.25 1.7 | | | | | 1.7 | Volts | |
| Maximum DC Reverse Current at rated DC blocking voltage at | T _A = 25℃ | - I _R | 5.0 | | | | | | - μΑ | |
| | T _A = 125℃ | | | | | 100 | | | | μΛ |
| 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) | | $R_{\theta JA}$ | 88 | | | | | | | °CW |
| | | R _{0JL} | 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.

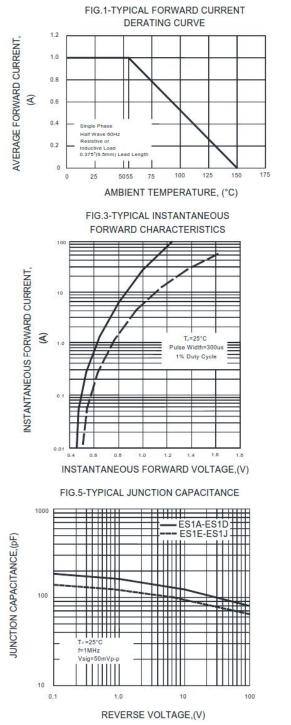
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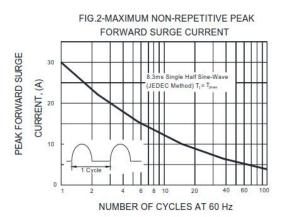
Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

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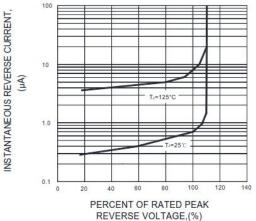
RATINGS AND CHARACTERISTIC CURVES

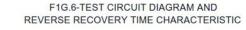


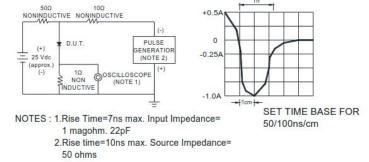


ES1A THRI

FIG.4-TYPICAL REVERSE CHARACTERISTICS







Note: Specifications are subject to change without notice.

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