Kingtronics®

ES2A THRU ES2.

SURFACE MOUNT SUPER FAST RECTIFIER

REVERSE VOLTAGE 50 to 600 Volts **FORWARD CURRENT** 2.0 Ampere

FEATURES

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

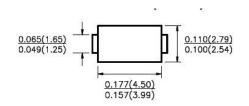
MECHANICAL DATA

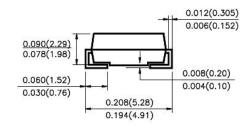
Cases: JEDED DO-214AC transfer molded plastic Terminals: Solder plated, solderable per MIL-STD-750

Method 2026

Polarity: Color band denotes cathode end

DO-214AC (SMA)





MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

For capacitive load derate current by 20%

Dimensions in inches and (millimeters)

	SYMBOL	ES2A	ES2B	ES2C	ES2D	ES2E	ES2G	ES2J	UNIT
Maximum Recurrent 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_L =100°C	I _(AV)	2.0						Amps	
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	IFSM	50						Amps	
Maximum Instantaneous Forward Voltage @ 2.0A	V _F	0.95			1.	25	1.7	Volts	
Maximum DC Reverse Current at rated $T_A = 25^{\circ}C$ DC Blocking voltage per element $T_A = 125^{\circ}C$	l _R	5.0 200							uA
Typical Reverse Recovery Time Test conditions I _F =0.5A, I _R =1.0A, I _{RR} =0.25A	t _{rr}	35							nS
Typical Junction Capacitance(Measured at 1.0MHz and applied reverse voltage of 4.0V)	CJ	25 28					pF		
Typical Thermal Resistance (Note 1)	$R_{ heta JA} \ R_{ heta JL}$	75 17							°C/W
Operating Junction Temperature Range	TJ	-55 to +150							$^{\circ}$ C
Storage Temperature Range	Тѕтс	-55 to +150							$^{\circ}$ C

1- Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $0.3^{"} \times 0.3^{"}$ (8.0mm×8.0mm) copper pad areas.

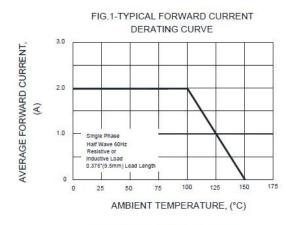
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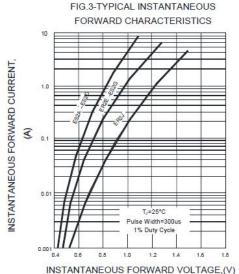
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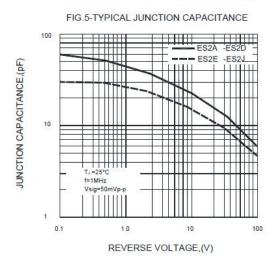
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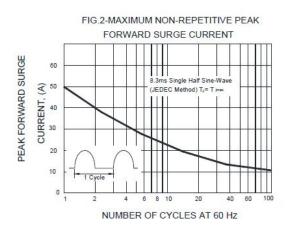
ES2A THRU ES2J

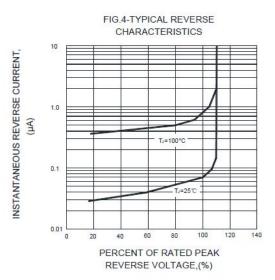
RATINGS AND CHARACTERISTIC CURVES



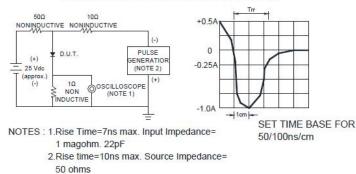












Note: Specifications are subject to change without notice.

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