# Kingtronics®

## ES3A THRU ES3.

#### SURFACE MOUNT SUPER FAST RECTIFIER

**REVERSE VOLTAGE** 50 to 600 Volts **FORWARD CURRENT** 3.0 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: 260°C/10 seconds

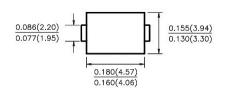
#### **MECHANICAL DATA**

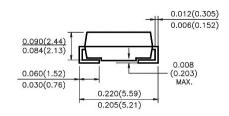
Cases: JEDED DO-214AA transfer molded plastic Terminals: Solder plated, solderable per MIL-STD-750

Method 2026

Polarity: Color band denotes cathode end

#### DO-214AA (SMB)





#### **MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS**

Ratings at 25°C ambient temperature unless otherwise specified , Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load derate current by 20%

#### **Dimensions in inches and (millimeters)**

SYMBOL	ES3A	ES3B	ES3C	ES3D	ES3E	ES3G	ES3J	UNIT
$V_{RRM}$	50	100	150	200	300	400	600	VOLTS
V <sub>RMS</sub>	35	70	105	140	210	280	420	VOLTS
V <sub>DC</sub>	50	100	150	200	300	400	600	VOLTS
I(AV)	3.0					Amps		
Ігѕм	100						Amps	
V <sub>F</sub>	0.95			1.25		1.7	Volts	
	5.0							uA
IR	300							
t <sub>rr</sub>	35						ns	
Сл	45			30			pF	
$R_{\theta JA}$	55							°C/W
$R_{\theta JL}$	17							
TJ	-55 to +150					$^{\circ}$		
Тѕтс	-55 to +150						$^{\circ}$	
	VRRM VRMS VDC I(AV) IFSM VF IR CJ RBJA RBJL TJ TSTG	VRMM 50 VRMS 35 VDC 50 I(AV) IFSM VF IR CJ ROJA ROJA TJ TSTG	VRMM 50 100 VRMS 35 70 VDC 50 100  I(AV)  IFSM  VF 0.  IR  trr  CJ 4  RejJA  RejL  TJ  TSTG	V <sub>RM</sub> 50 100 150 V <sub>RMS</sub> 35 70 105 V <sub>DC</sub> 50 100 150  I(AV)  I <sub>FSM</sub> V <sub>F</sub> 0.95  I <sub>R</sub> t <sub>rr</sub> C <sub>J</sub> 45  R <sub>θJA</sub> R <sub>θJL</sub> T <sub>J</sub> -5 TSTG -5	VRRM         50         100         150         200           VRMS         35         70         105         140           VDC         50         100         150         200           I(AV)         3.0           IFSM         100           VF         0.95           IR         300           trr         35           CJ         45           R⊕JA         55           R⊕JL         17           TJ         -55 to +15           TSTG         -55 to +15	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	VRRM         50         100         150         200         300         400         600           VRMS         35         70         105         140         210         280         420           VDC         50         100         150         200         300         400         600           I(AV)         3.0         3.0         400         600           VF         0.95         1.25         1.7           IR         300         300         400         600           Trr         35         300         300         400         600           RegJA         55         30         30         55         30         80         80         80         80         10<

<sup>1-</sup> Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with  $0.3" \times 0.3"$  (8.0mm  $\times$  8.0mm) copper pad areas.

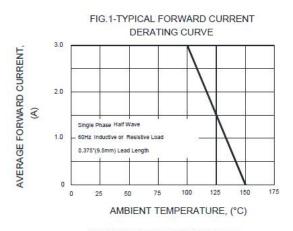
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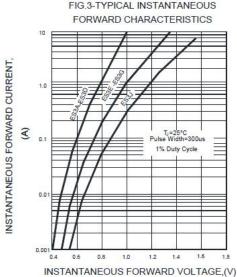
Website: www.kingtronics.com Email: info@kingtronics.com Tel: (852) 8106 7033 Fax: (852) 8106 7099

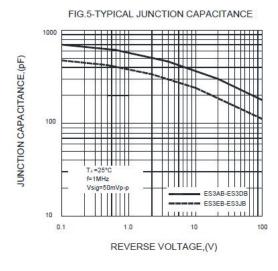
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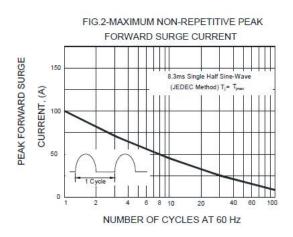
# ES3A THRU ES3J

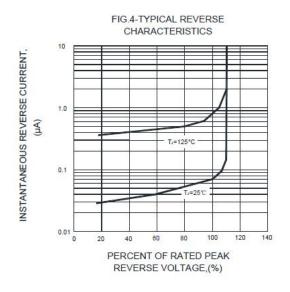
### **RATINGS AND CHARACTERISTIC CURVES**

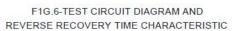


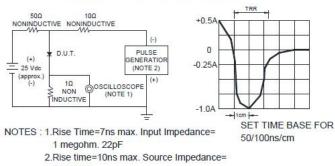












2.Rise time=10ns max. Source impedances
50 ohms

Note: Specifications are subject to change without notice.

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