Kingtronics®

ES3A THRU ES3J

SURFACE MOUNT SUPER FAST RECTIFIER

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

Case: JEDED DO-214AB transfer molded plastic **Terminals:** Solder plated, solderable per MIL-STD-750

Method 2026

Polarity: Color band denotes cathode end

Weight: 0.007 ounce, 0.25 gram

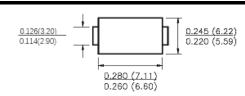
MAXIMUM RATINGS AND ELECTRICAL

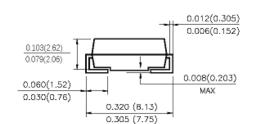
CHARACTERISTICS

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%.

DO-214AB (SMC)





Dimensions in inches and (millimeters)			
	Dimoneione	in inches	and (millimatore)

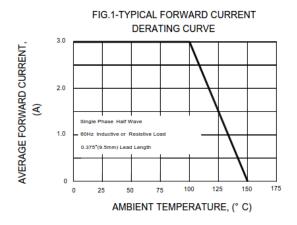
PARAMETER		SYMBOLS	ES3A	ES3B	ES3C	ES3D	ES3E	ES3G	ES3J	UNIT
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage		V _{RMS}	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage		V _{DC}	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified Current at T_L =100 $^{\circ}$ C		I _(AV)	3.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC method)		Ігѕм	100						Amps	
Maximum Instantaneous Forward Voltage @ 3.0A		VF	0.95			1.2	1.25 1.7		Volts	
Maximum DC Reverse Current at rated DC Blocking Voltage per element	T _A = 25°℃	· I _R	5.0							μA
	T _A = 125°C	IR	300							
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)		Сл		45 30					pF	
Typical Thermal Resistance (Note 1)		R _θ JA	55							°C/W
		R _{θJL}	17							
Operating Junction Temperature Range		TJ	-55 to +150							$^{\circ}\!\mathbb{C}$
Storage Temperature Range		T _{STG}	-55 to +150							$^{\circ}\!\mathbb{C}$

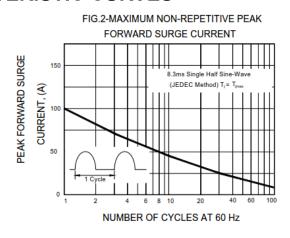
^{1.} Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with 0.3"×0.3"(8.0mm × 8.0mm) copper pad areas.

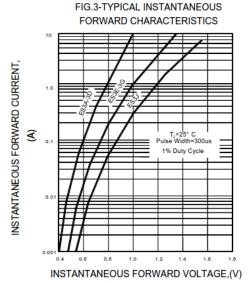
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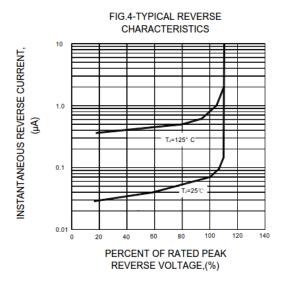
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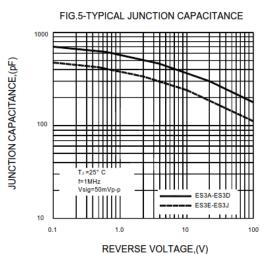
RATINGS AND CHARACTERISTIC CURVES

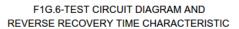


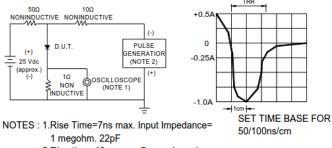












2.Rise time=10ns max. Source Impedance= 50 ohms

Note: Specifications are subject to change without notice.

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