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SURFACE MOUNT SUPER FAST RECTIFIER VOLTAGE RANGE 50 to 600 Volts 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

Case: JEDED DO-214AB transfer molded plastic Terminals: Solder plated, solderable per MIL-STD-750 Method 2026 Polarity: Color band denotes cathode end

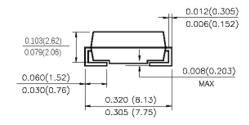
Weight: 0.007 ounce, 0.25 gram

MAXIMUM RATINGS AND ELECTRICAL

0<u>.280 (7.11)</u> 0.260 (6.60)

DO-214AB (SMC)

0.126(3.20)



ES3A THRU

Dimensions in inches and (millimeters)

0.245 (6.22) 0.220 (5.59)

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%.

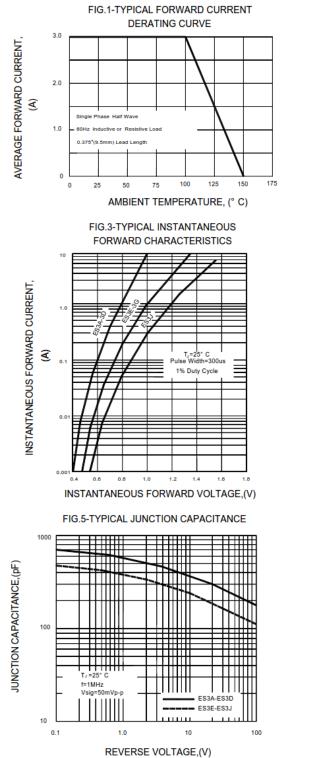
PARAMETER		SYMBOLS	ES3A	ES3B	ES3C	ES3D	ES3E	ES3G	ES3J	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	150	200	300	400	600	Volts
Maximum RMS Voltage		V _{RMS}	35	70	105	140	210	280	420	Volts
Maximum DC Blocking Voltage		VDC	50	100	150	200	300	400	600	Volts
Maximum Average Forward Rectified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

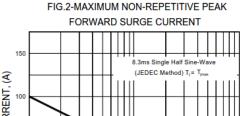
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RATINGS AND CHARACTERISTIC CURVES





ES3A THRL

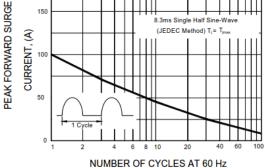
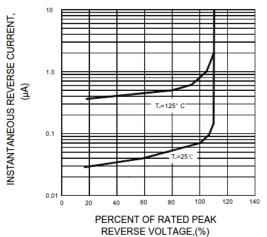
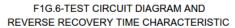
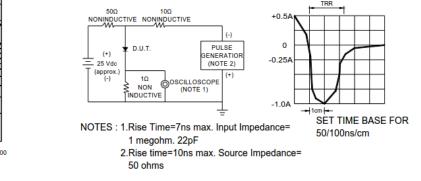


FIG.4-TYPICAL REVERSE CHARACTERISTICS







Note: Specifications are subject to change without notice.

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