Suntan_® Su_®

ES3A THRU ES3J

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:

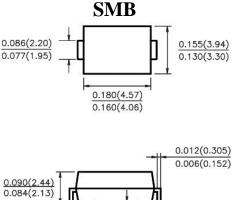
260°C/10 seconds

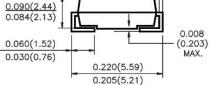
Mechanical Data

- ◆Case: JEDED DO-214AA transfer molded plastic
- ◆ Terminals: Solder plated, solderable per

MIL-STD-750 Method 2026

◆ Polarity: Color band denotes cathode end





Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%									
	SYMBOL	ES3A	ES3B	ES3C	ES3D	ES3E	ES3G	ES3J	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	42	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)	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 at 3.0A	$V_{\rm F}$	0.95			1.25		1.7	Volts	
Maximum DC Reverse Current at rated $T_A=25^{\circ}C$ DC Blocking voltage per element $T_A=125^{\circ}C$	Ir	5.0 300							μΑ
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)	$R_{\theta JA}$	55							°C/W
	$R_{\theta JL}$	17							
Operating Junction Temperature Range	T _J	-55 to +150						°C	
Storage Temperature Range	Tstg	-55 to +150						°C	

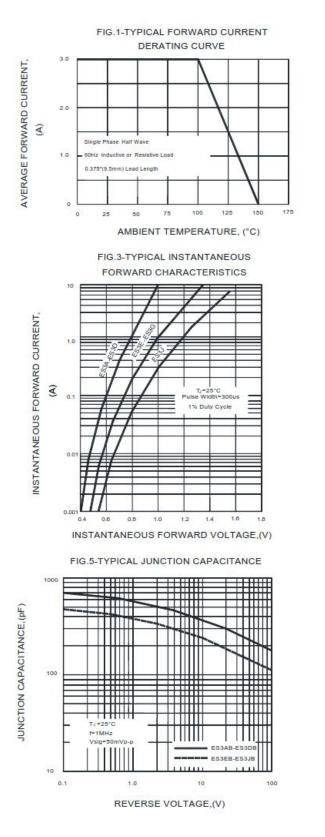
Note: Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with 0.3"×0.3"(8.0mm × 8.0mm) copper pad areas.

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RATING AND CHARACTERISTIC CURVES ES3A THRU ES3J



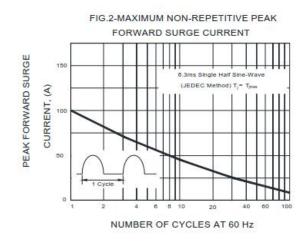
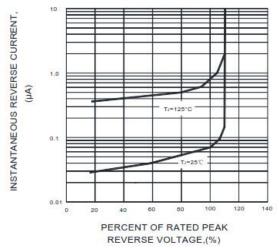
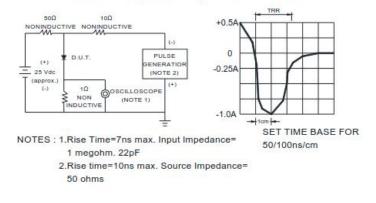


FIG.4-TYPICAL REVERSE CHARACTERISTICS



F1G.6-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERISTIC



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.