

# ES3A THRU ES3J

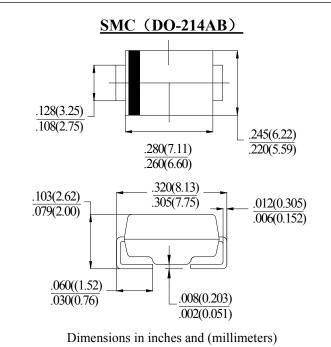
#### PINGWEIENTERPRISE 3.0AMPS. SUPER FAST SURFACE MOUNT RECTIFIER

#### FEATURE

- . High current capability
- . Low forward voltage drop
- . Low power loss, high efficiency
- . High surge capability
- . High temperature soldering guaranteed:  $260^{\circ}C/10$  seconds at terminals.
- . Superfast recovery time for high efficiency.
- . For surface mounted application.
- . Easy pick and place.

### **MECHANICAL DATA**

- . Case: Molded plastic
- . Epoxy: UL94V-0 rate flame retardant
- . Lead: MIL-STD- 202E, Method 208 guaranteed
- . Polarity:Color band denotes cathode end
- . Packaging:12mm tape per EIA STD RS-481
- . Mounting position: Any



## MAXIMUM RATINGS AND ELETRICAL CHARACTERISTICS

Ratings at  $25\,^\circ\!\mathrm{C}$  ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%

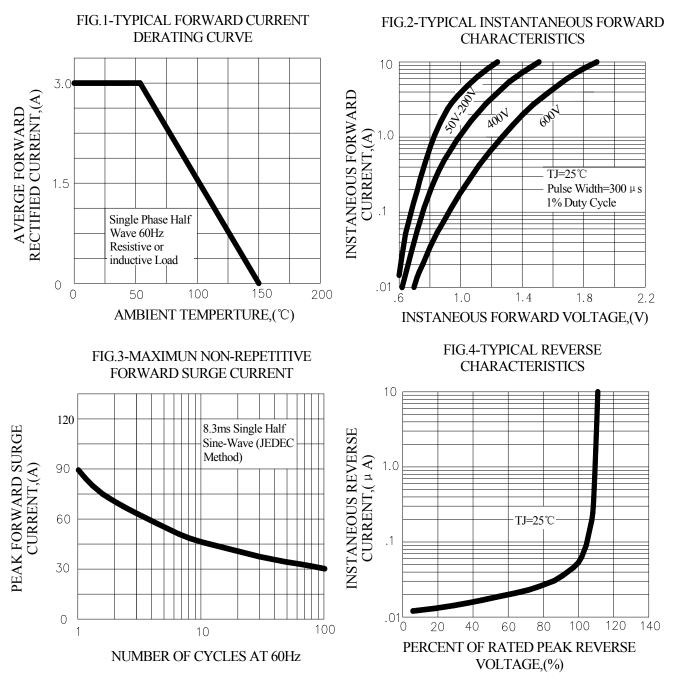
Type Number	SYM BOL	ES3A	ES3B	ES3D	ES3G	ES3J	units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	V
Maximum DC blocking Voltage	V <sub>DC</sub>	50	100	200	400	600	V
Maximum Average Forward Rectified Current at $T_A=55^{\circ}C$	I <sub>F(AV)</sub>	3.0					A
Peak Forward Surge Current 8.3ms single half sine- wave superimposed on rated load (JEDEC method)	<i>I</i> <sub>FSM</sub>	90.0					A
Maximum Forward Voltage at 3.0A DC	VF		0.95		1.3	1.7	V
Maximum DC Reverse Current $@T_A = 25^{\circ}C$ at rated DC blocking voltage $@T_A = 100^{\circ}C$	I <sub>R</sub>	5.0 100.0					μΑ
Maximum Reverse Recovery Time (Note 1)	t <sub>rr</sub>	35					nS
Typical Junction Capacitance (Note 2)	Сл	45 30					pF
Typical Thermal Resistance (Note 3)	<b>R</b> (JA)	50					°C /W
Storage Temperature	<b>T</b> <sub>STG</sub>	-55 to +150					°C
Operation Junction Temperature	TJ	-55 to +150					°C

Note:

1. Test Conditions: I<sub>F</sub>=0.5A, I<sub>R</sub>=1.0A, I<sub>RR</sub>=0.25A

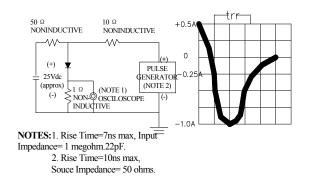
2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc

3. Measured on P.C.Board with 0.2×0.2"(5.0×5.0mm)Copper Pad Areas.



#### RATING AND CHARACTERISTIC CURVES (ES3A THRU ES3J)

FIG.5-TEST CIRCUIT DIAGRAM AND REVERSE RECOVERY TIME CHARACTERSITIC



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