ES3A-ES3J

3.0AMPS Surface Mount Super Fast Rectifiers



Features

- ∻ Glass passivated junction chip
- ∻ For surface mounted applications
- ∻ Low profile package
- ∻ Built-in strain relief
- ∻ Ideal for automated placement
- ∻ Easy pick and place
- ∻ Super fast recovery time for high efficiency
- ∻ Glass passivated chip junction ∻ High temperature soldering:
- 260°C/10 seconds at terminals ∻
- Plastic material used carries Underwriters Laboratory Classification 94V-0

Mechanical Data

- Cases: Molded plastic ∻
- Terminals: Pure tin plated, lead free. ∻
- Polarity: Indicated by cathode band ∻
- Weight: 0.21 gram ∻

Maximum Ratings and Electrical Characteristics

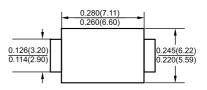
Rating at 25 °C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load. For capacitive load, derate current by 20%

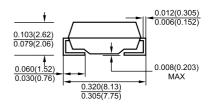
Type Number	Symbol	ES 3A	ES 3B	ES 3C	ES 3D	ES 3F	ES 3G	ES 3H	ES 3J	Units
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	150	200	300	400	500	600	V
Maximum RMS Voltage	V _{RMS}	35	70	105	140	210	280	350	420	V
Maximum DC Blocking Voltage	V _{DC}	50	100	150	200	300	400	500	600	V
Maximum Average Forward Rectified Current See Fig. 1	I _(AV)	3.0								А
Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) @T _L = 100 °C	I _{FSM}	100							А	
Maximum Instantaneous Forward Voltage @ 3.0A	V _F	0.95			1.3		1.7		V	
Maximum DC Reverse Current @ $T_A = 25 \degree C$ at Rated DC Blocking Voltage @ $T_A = 100 \degree C$	I _R	10 500								uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	35								nS
Typical Junction Capacitance (Note 2)	Cj	45 30						рF		
Typical Thermal Resistance (Note 3)	R _{θJA} R _{θJL}	47 12								°C /W
Operating Temperature Range	TJ	-55 to +150								°C
Storage Temperature Range	Tstg	-55 to +150							°C	

2. Measured at 1 MHz and Applied VR=4.0 Volts

3. Units Mounted on P.C.B. with 0.6" x 0.6"(16mm x 16mm) Copper Pad Areas

SMC/DO-214AB

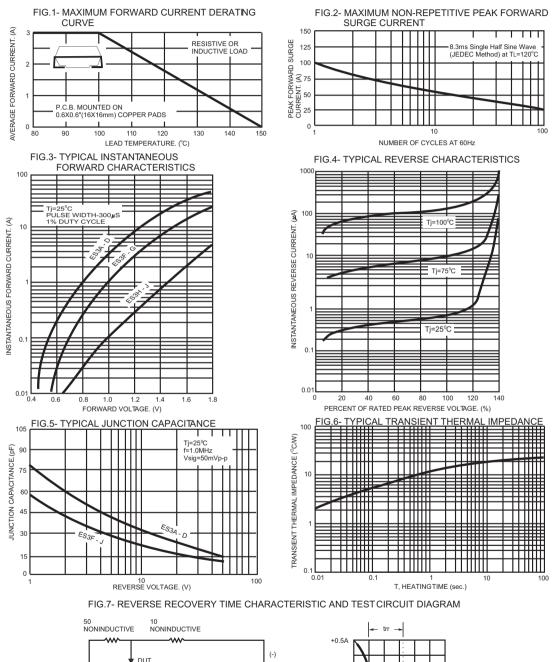




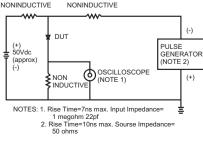
Dimensions in inches and (millimeters)

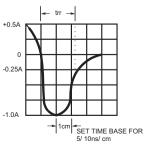
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RATINGS AND CHARACTERISTIC CURVES (ES3A THRU ES3J)





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