ES3A-ES3J

3.0AMPS Surface Mount Super Fast Rectifiers



Features

- ♦ Glass passivated junction chip
- ♦ For surface mounted applications
- Built-in strain relief
- Ideal for automated placement
- 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

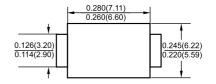
Mechanical Data

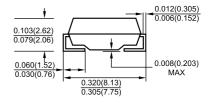
♦ Cases: Molded plastic

Terminals: Pure tin plated, lead free.
 Polarity: Indicated by cathode band

♦ Weight: 0.21 gram

SMC/DO-214AB





Dimensions in inches and (millimeters)

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 @ $T_A = 25$ °C at Rated DC Blocking Voltage @ $T_A = 100$ °C	I _R	10 500								uA uA
Maximum Reverse Recovery Time (Note 1)	Trr	35								nS
Typical Junction Capacitance (Note 2)	Cj	45 30						pF		
Typical Thermal Resistance (Note 3)	$R_{\theta JA}$	47								°C /W
	$R_{\theta JL}$	12						O / V V		
Operating Temperature Range	TJ	-55 to +150							°C	
Storage Temperature Range	Тѕтс	-55 to +150							°C	

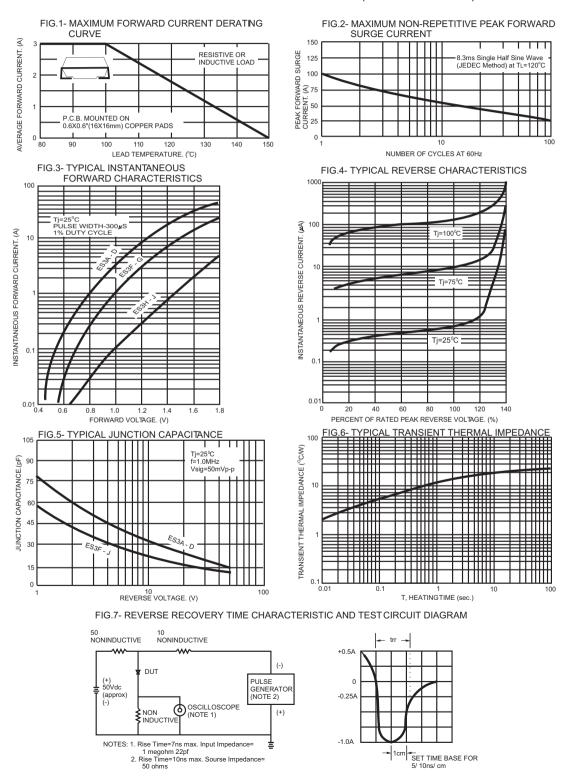
Notes:

- 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, IRR=0.25A
- 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

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RATINGS AND CHARACTERISTIC CURVES (ES3A THRU ES3J)



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CRS12(T5L,TEMQ) ACGRB207-HF CLH07(TE16L,Q) CLH03(TE16L,Q) ACGRC307-HF ACEFC304-HF NTE6356 NTE6359 85HFR60
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