

ES3A THUR ES3J Super-Fast Surface Mount Rectifiers

General description

Super Fast Surface Mount Rectifiers

Reverse Voltage: 50 to 600V Forward Current: 3.0A

SMC/DO214AB package

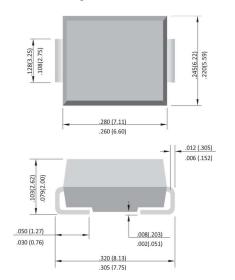
FEATURES

- · Low profile package
- Built-in strain relief
- · Easy pick and place
- · Superfast recovery times for high efficiency.
- Plastic package has Underwriters Laboratory
- Flammability Classification 94V-O

MECHANICAL DATA

- Case: JEDEC DO-214AB molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750 ,Method 2026
- Polarity: Indicated by cathode band.
- · Weight: 0.007 ounce, 0.25 gram

SMC/DO-214AB



Unit: inch (mm)

Maximum Ratings & Thermal Characteristics (Ratings at 25℃ ambient temperature unless otherwise specified.)

Characteristic	Symbol	ES3A	ES3B	ES3C	ES3D	ES3E	ES3G	ES3J	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	150	200	300	400	600	V
RMS Reverse Voltage	VR(RMS)	35	70	105	140	210	280	420	V
Average Rectified Output Current @T _L = 75°C	Io	3.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	100							А
Forward Voltage @I _F = 3.0A	VFM	0.95 1.25 1.7				1.7	V		
Peak Reverse Current @T _A = 25°C At Rated DC Blocking Voltage @T _A = 100°C	lгм	5.0 500							μA
Reverse Recovery Time (Note 1)	trr	35							nS
Typical Junction Capacitance (Note 2)	Cj	45							pF
Typical Thermal Resistance (Note 3)	RJL	47							°C/W
Operating and Storage Temperature Range	Тj, Tsтg	-55 to +150							°C

Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A

2.Measured at 1MHz and applied reverse voltage of 4.0V D.C.

3.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas



RATING AND CHARACTERISTIC CURVES

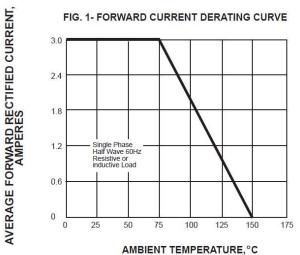
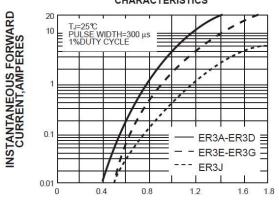
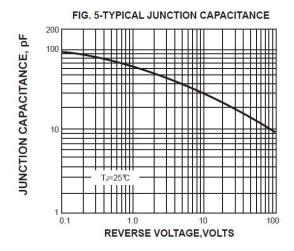
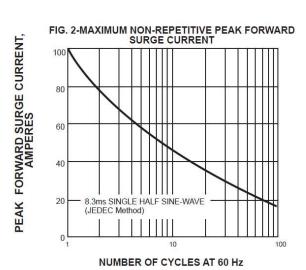


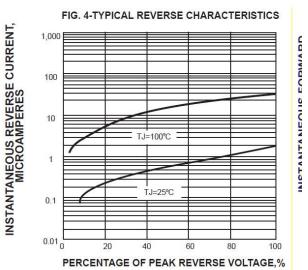
FIG. 3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

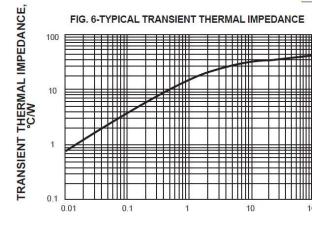


INSTANTANEOUS FORWARD VOLTAGE, VOLTS









t,PULSE DURATION,sec.



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