ES3A THUR ES3J



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

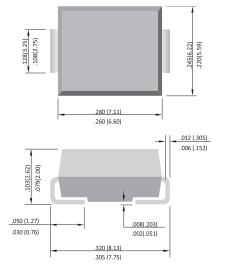
FEATURES

- · 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°C ambient temperature unless otherwise specified.)

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Characteristic	Symbol	ES3A	ES3B	ES3C	ES3D	ES3E	ES3G	ES3J	Unit
Marking Code	Mark	ES3A	ES3B	ES3C	ES3D	ES3E	ES3G	ES3J	N/A
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 $@T_L = 75^{\circ}C$	Io	3.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	100							A
Forward Voltage @I _F = 3.0A	Vfm	0.95				1.	25	1.7	V
Peak Reverse Current $@T_A = 25^{\circ}C$ At Rated DC Blocking Voltage $@T_A = 100^{\circ}C$	Iгм	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

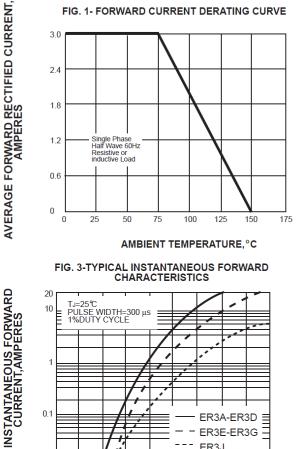
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A

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

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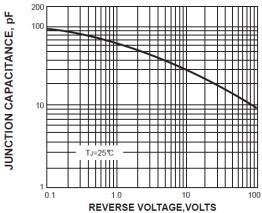
RATING AND CHARACTERISTIC CURVES





INSTANTANEOUS FORWARD VOLTAGE, VOLTS

FIG. 5-TYPICAL JUNCTION CAPACITANCE



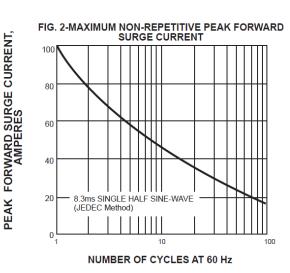


FIG. 4-TYPICAL REVERSE CHARACTERISTICS

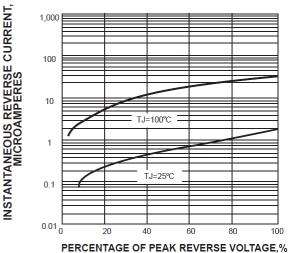
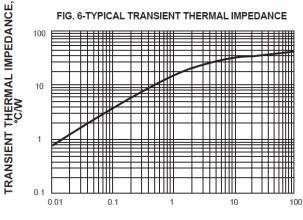


FIG. 6-TYPICAL TRANSIENT THERMAL IMPEDANCE



t, PULSE DURATION, sec.

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