

ER2A THRU ER2J

DO-214AA

SURFACE MOUNT SUPER FAST RECTIFIER

Reverse Voltage - 50 to 600 Volts Forward Current - 2.0 Amperes

FEATURES

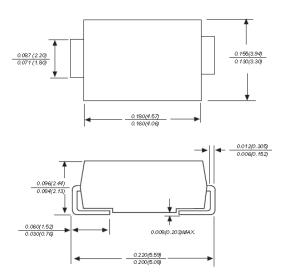
- The plastic package carries Underwriters Laboratory
- Flammability Classification 94V-0
- For surface mounted applications
- Super fast switching for high efficiency
- Low reverse leakage
- Built-in strain relief, ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed:260 C/10 seconds at terminals

MECHANICAL DATA

- Case: JEDEC DO-214AA molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750,

Method 2026

- Polarity: Color band denotes cathode end
- Mounting Position: Any
- Weight: 0.003 ounce, 0.093 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOLS	ER2A	ER2B	ER2C	ER2D	ER2E	ER2G	ER2J	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	150	200	300	400	600	VOLTS
Maximum RMS voltage	Vrms	35	70	105	140	210	280	420	VOLTS
Maximum DC blocking voltage	VDC	50	100	150	200	300	400	600	VOLTS
Maximum average forward rectified current at T∟=55°C	l(AV)	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	lfsm	50.0							Amps
Maximum instantaneous forward voltage at 2.0A	VF		0.95		1.25		1.7	Volts	
Maximum DC reverse current TA=25℃ at rated DC blocking voltage TA=100℃	lR	5.0 50.0						μΑ	
Maximum reverse recovery time (NOTE 1)	trr	35							ns
Typical junction capacitance (NOTE 2)	CJ	60.0						рF	
Typical thermal resistance (NOTE 3)	Reja	40.0						°ĊŴ	
Operating junction and storage temperature range	Tj,Tstg	-65 to +150							°C

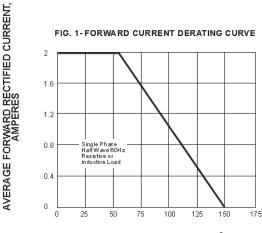
Note:1.Reverse recovery condition IF=0.5A,IR=1.0A,Irr=0.25A

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

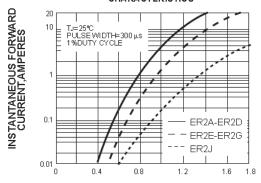


ER2A THRU ER2J

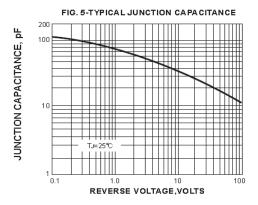


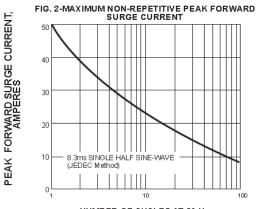
AMBIENT TEMPERATURE,°C



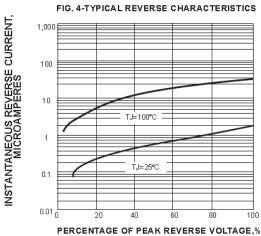




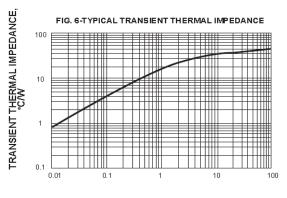




NUMBER OF CYCLES AT 60 Hz







t,PULSE DURATION,sec.