

ER2A THRU ER2J

SUPER FAST RECOVERY GLASS PASSIVATED RECTIFIER

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: 50°C/10 seconds at terminals

MECHANICAL DATA

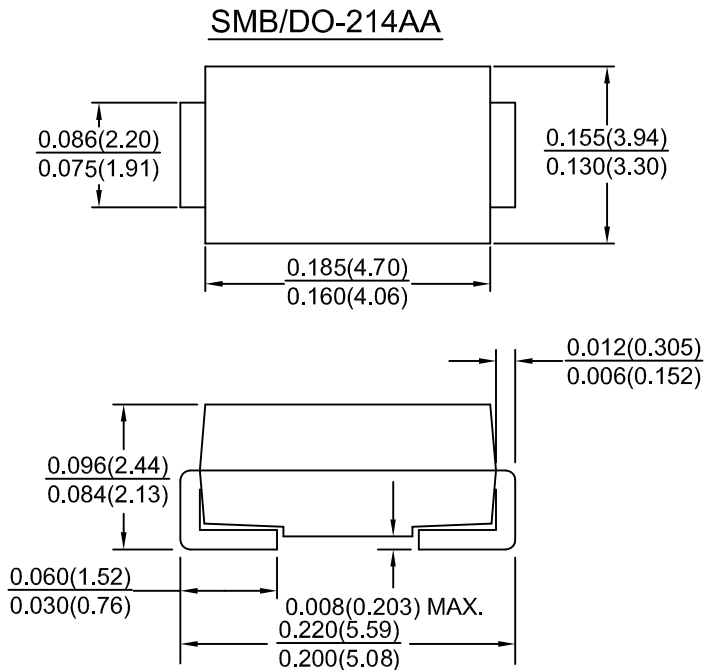
Case: JEDEC DO-214AA molded plastic body

Terminals: Solder Plated, solderable per MIL-STD-750, Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.005 ounce, 0.138 grams



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25° C ambient temp. unless otherwise specified.

Single phase, half sine wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20 %.

Characteristic	SYMBOLS	ER2A	ER2B	ER2C	ER2D	ER2E	ER2G	ER2J	UNITS
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	150	200	300	400	600	VOLTS
Maximum RMS voltage	V_{RMS}	35	70	105	140	210	280	420	VOLTS
Maximum DC blocking voltage	V_{DC}	50	100	150	200	300	400	600	VOLTS
Maximum average forward rectified current at $T_L=55^\circ\text{C}$	$I_{(AV)}$	2.0							Amps
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	50.0							Amps
Maximum instantaneous forward voltage at 2.0A	V_F	0.95				1.25	1.70		Volts
Maximum DC reverse current at rated DC blocking voltage	I_R					5.0	50.0		μA
Maximum reverse recovery time (NOTE 1)	t_{rr}					35			ns
Typical junction capacitance (NOTE 2)	C_J					60.0			pF
Typical thermal resistance (NOTE 3)	$R_{\theta JA}$					40.0			$^\circ\text{C/W}$
Operating junction and storage temperature range	T_J, T_{STG}					-65 to +150			$^\circ\text{C}$

- Note:**
1. Reverse recovery condition $I_F=0.5\text{A}, I_R=1.0\text{A}, I_{rr}=0.25\text{A}$
 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

RATINGS AND CHARACTERISTIC CURVES ER2A THRU ER2J

